

# From The Staff:

WTFDA Headquarters, P.O. Box 97, Cahmet City, IL 60409

OUT OF SYNC?...Our thanks to Harry Hayes for this month's cover. The April VUD may be a bit out of sync itself--you'll probably be reading this in early May. From now on, you can expect more timely VUDs--just in time for the DX season.

NEW FM ATLAS OUT SOON...FM DXers, please take note. The sixth edition of Dr. Bruce Elving's FM Atlas should be ready in May, in time for the start of the FM E-skip DX season. Check Bruce's FCC FM NEWS column (page 14) for more info.

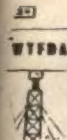
THE F2 MYSTERY CONTINUES...F2 skip watchers continue to be amazed at how quickly the high-MUF F2 skip dropped off this past winter, particularly on the transatlantic paths. So far, we haven't heard of any sign of South American TV signals logged in North America via F2, but many southern DXers are hoping for a repeat performance of the event last April that brought South American ch A2 signals into south Texas on at least one good day. As this is being written, north-to-south paths are showing promise. It remains to be seen if any transequatorial scatter (TE) DX will coincide with an early season E-skip opening. If and when that takes place, some southerly DXers could be in for the type of DX that set our all-time DX records of the late 1950's.

FOR YOU "BIRD" WATCHERS...We've got a real treat for those DXers interested in satellite reception this month. On page 6, National Public Radio's Greg Monti details the system used by NPR to distribute their network service to affiliate stations. With more and more VHF/UHF DXers getting interested in satellites, we'd like to know if WTFDAers would be interested in seeing more articles of this type in the VUD.

VHF UTILITY DXERS...If you wondered why there was no February VHF UTILITY DX column, it's certainly not due to a lack of VHF DX! Pat Dyer's February column was lost in the mail, but we have a duplicate in this month's issue. Despite the delay, it was worth waiting for. Our thanks to Pat for taking care to duplicate his finished copy.

## TABLE OF CONTENTS

MAILBOX: A helpful hint for better UHF TV DX audio.....	3
INTERNATIONAL NOTES: Lots of news from many places.....	5
NPR'S SATELLITE INTERCONNECTION SYSTEM: All on the "bird".....	6
PHOTO NEWS: A look at John Barber's DX set-up.....	8
NORTHERN FM DX: Not much DX in the last weeks of winter.....	10
SOUTHERN FM DX: No February Es, but great Gulf tropo.....	11
FCC FM NEWS: New FM Atlas coming in early May.....	14
QSL CORNER: All TV QSLs, and many UHF veries.....	15
WESTERN TV DX: Pat Dyer catches Es, super Gulf tropo.....	16
EASTERN TV DX: More reports on great DX conditions.....	17
VHF UTILITY DX: The February column, at last!.....	23
Unexplainably poor February conditions.....	28
TECHNICAL TOPICS: On co-channel video interference.....	34



# MAILBOX

John Zondlo  
1802 N. Rockwell  
Apt. 107  
Bethany, OK 73008  
(405) 787-3717  
Deadline: 10th

### New Members:

J. Mario Abrego  
Bill Fauber  
Frederick W. Martin  
Ken Onyschuck  
Bob Umhoefer  
191 Todd Hill Road  
336 Atlantic St.  
12 Eversdale Court  
239 Fir St.  
R.D. #2, Box 60  
Valley Crest Road

Station Island, NY 10314  
Bridgeton, NJ 08302  
St. Louis, MO 63124  
Park Forest, IL 60466  
Annandale, NJ 08801

### Renewals:

Fred Born, Jr., Roger Carriere, William Draeb, Alvin Fair, Mark Harms, Glenn Jacobs, John Marx, Greg Monti, Jim Pizzi, Les Price, Rick Samford, Richard Steinberger, John Sulak, Verrell Tallet, Neil Tank.

### Address Changes:

Tanjo Sugihara - Corpo. Tatsumi - 10-9, Nakaikegami 2 - home - Ota-ku - Tokyo 146, JAPAN  
Doug Talley-2545 237th St.-Torrance, CA 90505

### Renewals Due in May:

Alvin Berger, Murray Bernstein, Bill Coleman, Jim Gail, Patrick Golembiewski, Melvin Goldberg, Robert Goodman, James Gordon, Joe Grant, John Griffiths, Jim Jennings, Jeff Kadet, Paul Kalisz, Neil Kazaross, James Kingsbury, Scott Levitt, Joseph Longmoore, Paul Louks, Doug McAbee, Lowell McCown, Tim McVey, Charles Mylod, Rod O'Connor, Bill Phillipson, Michael Rosen, Ken Sarkozy, Peter Skinner, Robert Taylor, Adrian Thomas, David Tomlin, Roy Wilson, Jr., Jeff Wolf, Donald Woods, Robert Zent, William Zumstein.

Welcome to new member BILL FAUBER! He writes, "Reference was made in the 1980 Communications World magazine about your club, and I became very interested in it when I saw it. For years my hobby had been DXing distant television stations, but I seldom hear of anybody else trying it."

BOB UMHOEFER is sales manager for an auto dealer in Bernardsville NJ. He's interested in PSB monitoring, and has an impressive list of gear: Bearcat 250, Bearcat 101, Tennesse MCP-1, Realistic Pro-77 crystal-controlled scanner, Realistic Pro-28 tunable receiver, Lafayette Micro-P50 tunable receiver, Realistic Hi/Lo pocket scanner, Realistic Hi-Band pocket scanner, and a Russell Digi-10 Hi/Lo pocket scanner. We'll have more from Bob in Tidbits.

### Tidbits.....

The first item this month comes from Phil Boersma. "I have noted a couple of reporters in recent FM-DX columns reporting 92.9 Cadillac MI station as "WWAM." THOSE ARE NOT THE CORRECT CALLS. WWAM is the AM station on 1370, and the FM station is WKJP. Unfortunately, WKJP's excellent class C facilities are totally wasted by simulcasting WWAM 100% (Cadillac is small enuf to do that legally), and the only time the FM calls are used is on the hour (and I have heard them forget to use them then, too). So anyone hearing a "WWAM" on 92.9 is hearing WKJP--got that? hi. Wolverine state member Robert Grant has more to say about his WJBK catch (referred to in a couple past issues): "I seriously doubt that the WJBK catch was xGW or Tr. The antenna was at only 10' RAT (the rafters of the cottage) and Detroit stations were only seen during early morning hours and much weaker. The catch was medium-weak in signal strength, and no evidence of tropo whatsoever (even the Green Bay stations were weak). Stations in by skip at the time were WDIQ, WSB, WESH, and WCBD, all on 2. The time was 1725 EDT (1539 honor solar time, a very rare time for tropo) 7/24/79 and fading was E-skip style and in sync with the other E-skip stations. Although backscatter was possible, I don't think it was the mode of propagation for this catch. I seem to favor those mode possibilities, in order of chance: (1) Es (simply a very short E-skip), (2) As- airplane scatter (I have nicknamed this propagation "April fool skip" because on 4/1/79 I thought I had skip until I saw a WEWS-5 ID; this mode features the same fading and "micro-smearing" conditions Es has. As mode is also explained by the severe local ghosting you get when a WC-10 or a 747 flies by. (3) M3- meteor scatter is heavy in late July.



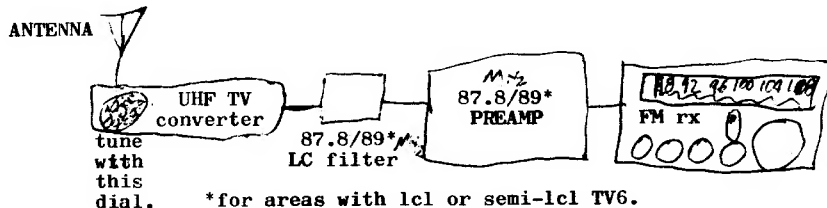
April 1980

(Grant, cont.) I have sent my reports to GCI & Eastern TV DX, with uniDs out. They should be in the March VUD.

To those who bought, built, or converted U.S. sets to foreign TV DX: Don't throw out your set when the F2 is over. DXing of these stations is entirely possible by multi-hop Es, especially during the last week of June. And you'll see much less ghosting and possibly good sound and pix at the same time!

Looking for more UHF selectivity? A TV set is made to pick up wide bands. But an FM radio is made to pick out an FM radio channel. So for a strong, selective UHF TV audio receiver use a UHF TV converter, a good LC filter, a tuned preamp, and an FM receiver or 87.8 or 89.0 MHz (see drawing for block diagram). With this kind of receiver you can hear the weakest or channel 19's next door to WXON-20's transmitter.

Block diagram:



I think Mike Allmark's F2 DX stations are WLBZ/CKCW, as this was the area most affected by F2 and he mentioned seeing an "AV" slide (this could be ATV, whose logo resembles "AV," of which CKCW is a member). Mike, you should join the WTFDA!"

This month we have Wolverines back-to-back; here's a few words from John Robertson- "Regarding John Sulak's problem with adjacent channel interference: I don't know about his antenna, but he might try a better TV set. Of course, it's probably cheaper to fix the antenna. I recently got a Beta Video Cassette Recorder and it handles adjacent channel interference much better than my TV set. With it I can get CHCH-TV channel 11 with no interference from CPPL-TV channel 10. WUAB-TV channel 43 comes in nearly all the time without much interference from CKCO-TV-3 channel 42. Maybe he should get a VTR, hi.

Speaking of VTR, I read a few VUDs ago where some DXers had VHS recorders and wanted tape traders. Well, I have a Beta format and am wondering if there are any DXers in the club with a Beta VTR willing to trade tapes?" John's address is 6065 Gardner Line, Crosswell, MI 48422.

As promised, here's more of a rundown on Bob Umhoefer's receiving gear: "The Bearcat 250 is coupled to an Antenna Specialist's tri-band antenna with a Realistic (Gavin Electronics) amplifier and pre-amp set-up. Just over 50' of RG58/U wire is used for the hook-up. The Tennalect MCP-1 and one of the Realistic Pro-77 scanners are hooked up to an Antenna Specialist's Hi/Lo band ground plane antenna through another Realistic (Gavin Electronics) amplifier/preamp set-up, with once again about 50' of RG58/U wire. The signal is split to the two sets through a 0-900 MHz splitter. The other Realistic Pro-77 and the Realistic Pro-28 are hooked up to another Antenna Specialist's Hi/Lo band ground plane antenna, using just over 30' of RG58/U wire and an Antenna Specialist's MON-26 preamp. The signal is split in this case through the use of CB antenna splitter put out by Gold Electronics. All of the aforementioned antennas are mounted to either the roof of our house or its attached garage. The Lafayette Micro-P50 tunable is operating off of its own antenna attached to the back of the set. (This was the set that started it all, many years ago.)"

To round it all out this month, we continue our comments from West Germany's A.H. Wiese: "I told you of my DX-device? Well, I'm using a 14 element yagi (12 dB gain) with preamplifier on a German-made rotor (Stolle multimatric). My DX receiver is a Grundig Satellit 3400. You don't know it? Look at their ad on page 43 in the '79 edition of WRTVH. It's a very fine receiver; I was able to tune in AFN-Frankfurt on 98.7 although on 98.5 there's a very strong outlet of the Bavarian network (3rd program), located at nearby Wendelstein. I'm planning to install a better preamplifier (with a S/N ratio of better than 1 dB). I expect with this one my receiver will explode with stations never heard before. Till now, I've logged 112 FM stations."

See y'all next month.....73.....jz

## INTERNATIONAL NOTES from

Ken Simon  
513 6th Avenue South  
Lake Worth FL 33460

From TRACY WOOD in Tarija, BOLIVIA comes news of the country's TV systems ...the government network is Television Boliviana (TVB) and it uses 625 lines. Programs run from 4 p.m. to midnight Tuesday through Friday, 11 a.m. to midnight on weekends and Mondays are reserved for special holidays. All B&W with commercials.

La Paz (studios)	ch 7	5 kw
Oruro (Negro Pabellon)	10	500 w
Santa Cruz	9	500 w
Cochabamba	9 ?	500 w
Sucre (Colquechaca)	?	??
Potosi (Malmica)	?	??
Potosi (Cerro Rico)	7	1 kw (cp)

This is an old list and Tracy says some shifting is expected.

The other network is the Television Universitaria (TVU). This is a very loose net with all carrying their own programs. It used 525 lines and NTSC color.

University	City	ch	power	hours (24 hr time)
Juan Misael Saracho	Tarija	8	1 kw	tu/th/sa 18-24; su 11-13
Juan Misael Saracho (R)	Bermejo	8	100 w	m-w/fr 18-24
Tecnica de Oruro	Oruro	8	??	??
Tomas Frias	Potosi	9	100 w	four nights a week
Jose Ballivian	Trinidad	9	??	??
Mayor de San Simon	Cochabamba	11	??	tu-f 19-21:30
Gabriel Rene Moreno	Santa Cruz	11	10 w	th-su 18:30-23:30
San Francisco Xavier	Sucre	12	100 w	??

(This is an old letter I received before I moved...and just found)

From RICHARD DOUGLAS in St. John's, ANTIGUA says the local station ABS-TV uses 525 lines and NTSC color. An STL is used from the studio to transmitter. (I'm confused here...) he says the audio signal is on 193.5 MHz. He says hours are 6 p.m. - 10 p.m. (WRTVH lists channel 10)

DICK CLARK in La Vega, DOMINICAN REPUBLIC needs some help with STRANGE loggings...

ch 4 via tropo, with 6 Million Dollar Man in English at 6:30 p.m. EST... then off a 7 with NO ID and U.S. national anthem. (AFRTS???)

ch 3 via tropo carrying programs from CKCU-TV (ch 21) and KIRO-TV (ch 7) with sign off at 1 a.m. No local ID and CKCU/KIRO local ads and IDs... open carrier between programs.

Dick also writes he's finally logged ZNS-TV (ch 13) Nassau, BAHAMAS (I haven't yet) and says he took some color pictures of WPLG (ch 10) Miami!!! Any help with the MYSTERIES will be forwarded to Dick. Will devote an entire column to Dick's FM listings soon.

KOCIS FERENC in Fertod, HUNGARY, sends along a list of TV and 66-73 MHz FMs. He says he has 14 antennas and lists stations he's seen in Hungary, Austria, Czechoslovakia, Yugoslavia, Poland and West Germany. His best tropo in the list is Biokvo ch El1 (Zagreb II) at 460 km and Steinkimmen ch E2 (NDR-1) at 850 km. He also lists DX to Portugal, Ireland, Norway, Crete, Egypt, Canary Islands, Jordan, and Lebanon!!! He sent a BATCH of 20 photos. (I will try to make these into a picture page).

(continued on page 22)

# NATIONAL PUBLIC RADIO'S SATELLITE INTERCONNECTION SYSTEM

by Greg Monti

Ever since National Public Radio began its first AT&T landline service in 1971, they looked for a better way to distribute programming in high quality on a national scale. AT&T could not, and still cannot, provide frequency response better than about 100 Hz to 5 kHz and a signal-to-noise ratio of 40 to 45 db without great capital expense. Harmonic distortion often exceeds 2 percent. NPR took to distributing music programs, mostly of the classical and jazz genres, by duplicating stereo tapes and mailing them to member stations.

In the late 70's, NPR gathered researchers, design experts, and corporate R&D departments and came up with a satellite distribution system. Flexibility and quality were stressed. NPR wanted the ability to distribute programs in both mono and stereo, and, should the need arise, in quad. It also wanted the ability to originate programs from cities other than Washington, where NPR's technical center and studios are located. A 12-channel system was proposed, capable of transmitting up to 12 mono or six stereo programs simultaneously. The bargaining power of the Corporation for Public Broadcasting was used to help NPR contract for the use of part of transponder 2 on Westar I, one of Western Union's domestic telecommunications satellites. It orbits the earth in the plane of the equator at 99°W.

Technical quality would have to be as good as or better than that offered by FM broadcast stations which, by and large, make up NPR's membership list. Taking this and flexibility requirements into account, designers decided on a single-channel-per-carrier system (SCPC). Each carrier can be transmitted to the satellite individually, and each may in fact be transmitted from a different city and still be received with equal quality anywhere in the country. The carriers used to carry programming use a peak deviation of 75 kHz, the same as that used in FM broadcast. To keep noise to a minimum, each channel's audio signal is pre-emphasized and compressed by a ratio of 3 to 1 at the transmitting end and de-emphasized and expanded by a ratio of 1 to 3 upon reception. This provides a total dynamic range of about 80 db, larger than that of virtually any FM station. This is achieved in spite of the high noise floor received after the 40,000-mile-plus round trip to Westar, where the path loss is typically over 100 db. The received carrier-to-noise ratio is usually around 20 db.

The exact frequency plan is given below in MHz. The IF frequencies shown are those actually generated by the modulators and detected by the demodulators. There is an SHF-to-VHF downconverter at each receive site and a VHF-to-SHF upconverter at each transmit site.

Channel number	Uplink frequency	Downlink frequency	Intermediate Frequency
1	5990.3	3765.3	75.3
2	5989.6	3764.6	74.6
3	5989.2	3764.2	74.2
4	5987.8	3762.8	72.8
5	5987.5	3762.5	72.5
F1	5987.2	3762.2	72.2
6	5986.9	3761.9	71.9
F2	5986.1	3761.1	71.1
7	5983.3	3758.3	68.3
8	5982.7	3757.7	67.7
9	5982.4	3757.4	67.4
10	5981.0	3756.0	66.0
11	5980.6	3755.6	65.6
12	5979.9	3754.9	64.9

## NPR's SATELLITE INTERCONNECTION SYSTEM

The modulators and demodulators are equipped only with 12-position thumbwheels marked with the channel numbers. A programmable-read-only memory in each unit provides the necessary local-oscillator frequency for receiving or transmitting on the desired channel. Each of the 210 receive only (RO) stations is equipped with four such demodulators, providing for simultaneous reception of up to two stereo or four mono programs. AM-FM combination stations are provided with eight demodulators, as are FM-FM co-owned pairs (like WFPL and WFPK). The only other items required for an RO site are a 4.5-meter-reflector antenna, a low-noise amplifier (a broadband SHF device), and a downconverter. The 4.5-meter dish is usually located in the backyard of the NPR member station. At some sites, such as in major cities, the antenna and related equipment must be located as far as several miles from the station's studios, interconnected by a microwave link or by local, 15 kHz telephone lines. In those cases, stations have remote control of their demodulators and other equipment at the remote site. In a few cases, where an NPR member station and a PBS television station are near each other, the existing PBS receiving dish is used since it, too, is pointed at Westar I. The RO antennas at all NPR stations are capable of being pointed at Westar II in case of catastrophic failure in Westar I.

In addition to the Main Origination Terminal near Washington, which is capable of transmitting on all 12 channels at once, sixteen major public radio stations are provided with uplink transmitters. Three are in the west, at KUSC, Los Angeles; KQED-FM, San Francisco and KUOW Seattle. One is in the Rockies, at KCFR, Denver. Seven are in the midwest, at WBEZ, Chicago; KSJN-AM-FM, Minneapolis; KCUR, Kansas City; KUT, Austin; WKAR-AM-FM, East Lansing, MI; WOI-AM-FM, Ames, IA and WGUC, Cincinnati. There are two in the northeast, at WHYC-AM-FM, New York and at WGBH-FM Boston. And there are three in the southeast, at WABE, Atlanta; WLFZ, Columbia, SC and WFSU, Tallahassee, FL. These receive-transmit (RT) sites are equipped with two program channel modulators, two SHF upconverters, and two 100-watt traveling-wave-tube power amplifiers. The same antenna is used in all cases for both receiving and transmitting since the frequencies involved are 2225 MHz apart and will not interfere with each other with proper filtering.

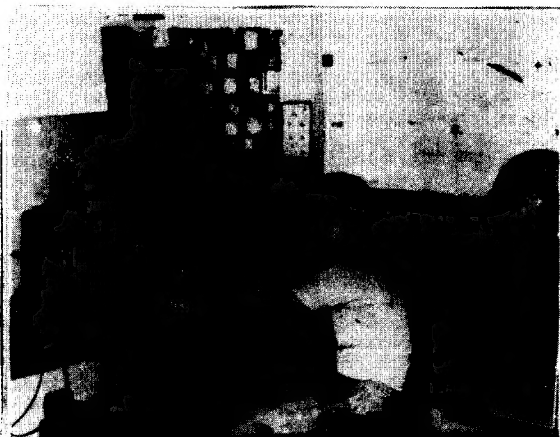
The period of transition from landlines to satellite will take slightly over one year. Field crews travel from station to station, installing equipment and making performance checks. As each RO site passes its acceptance tests, the equipment is turned over to radio station personnel. At this point, the station has 30 days until its landline service is disconnected and 60 days until its mailed-tape service is discontinued. All programs thereafter will arrive by satellite. The first station to have this honor was KLCC, Eugene, OR.

In order to minimize weather-related installation problems, stations in the Pacific Northwest and in Alaska were converted to satellite first, before the winter of 1979-80. Construction and installation work proceeded across the northern tier of the country from west to east, and is now headed the opposite way across the southern half. By the time you read this, approximately 150 of the 210 RO sites will be completed and in use.

With the advent of satellite interconnection, NPR added a Distribution Division to handle scheduling and time booking because not all programs appearing on the satellite system originate at NPR. The "National Program Service" originates mostly in Washington or is produced in the field by NPR crews. The "Extended Program Service" is a sort of "common carrier" for use by any independent producer or distributor of public radio programming. Such a producer may, or may not, be an employee of an NPR member station. The producer is charged a fee for the labor involved in satellite transmission, plus a small fee for the satellite time used and is guaranteed distribution to all of NPR's members. The only thing the producer must do is deliver the program to one of the 17 uplink sites, either by shipping a tape or by leasing a phone line of whatever quality he or she can afford. It is also now a simple matter for producers of NPR programs like "All Things Considered" or "Morning Edition" to acquire an actuality feed from a major city. If the NPR Chicago news bureau wants to feed something to Washington, it sends it down a short phone line to the WBEZ uplink. All the recording room in Washington has to do is to roll a tape recorder connected to a satellite receiver and make a copy. Another advantage of the

(continued on page 13)

## Feature: A visit to Carolina, RI



This month, PHOTO-NEWS travels to Carolina, RI for a look at John Barber's QTH. At the left is a shot of John's 100 foot tower, which holds a Channel Master 7' dish for UHF, and a CM Quantum 1110 for

VHF. The dish feeds a CM 0071 preamp, while a modified preamp is used with the 1110. At the bottom is a CM 0062 amp. To the right is a photo of John in his DX shack. John is shown tuning a Hallicrafters model SX-28 Super Sky rider. On top is a Craftsman AM/FM, along with two CB radios. To their right are home-brew AM and FM radios. On the walls are some of John's photos and QSLs.



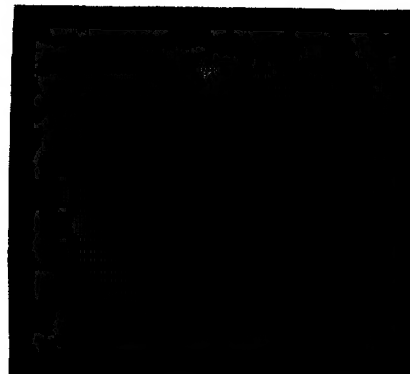
WRC- 4 Washington, DC  
760 mile E-skip  
(John Combs, Orlando FL)



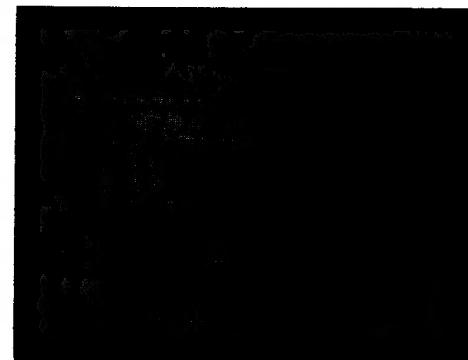
WOKR-13 Rochester, NY  
280 mile tropo  
(Paul Gaines, Detroit MI)

**Guidelines for reporting:** When sending photos to this column, please include as much of the following information as possible: 1) Call letters and location of the station photographed; 2) Location of reception and distance from the station; 3) Mode of signal propagation; 4) Date (and, if possible, time) of reception. If the photo is to be returned to you after its use, and/or the photo is not to be trimmed, be sure to so indicate. Color photos are acceptable only in special cases. If you have something highly unusual, but it is a color print, send it to your editor, and we'll see if a way can be found to use it. Finally, if a photo of equipment is sent, be sure to include details of the equipment shown.

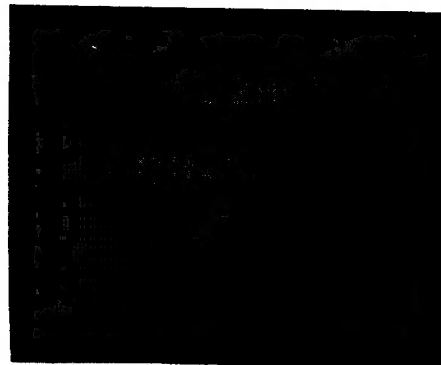
8 My thanks to John Barber for this month's feature.



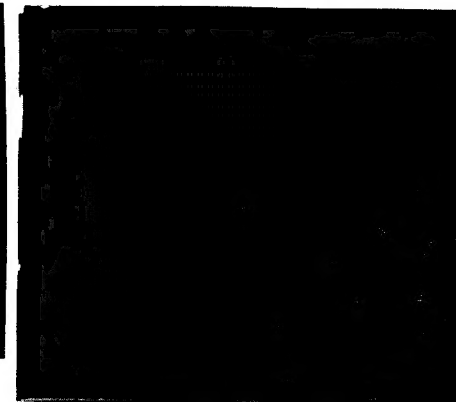
KFDX- 3 Wichita Falls, TX  
1,080 mile E-skip (Combs)



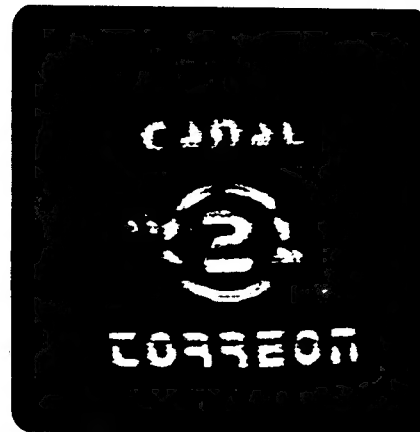
WESH- 2 Daytona Beach, FL  
6/30/74, 1200 EDT (Grant)



WEAU-13 Eau Claire, WI  
440 mile tropo (Gaines)



WTVZ-33 Norfolk, VA  
350 mile tropo (Barber)



XHIA- 2 Torreon, COAH Mexico  
1340 mile E-skip  
7/29/79, 1730 CDT

## Contributors:

John Combs,  
Orlando FL  
  
Bill Grant,  
Worcester, MA  
  
Paul Gaines,  
Detroit MI  
  
John Barber,  
Carolina RI  
  
Marv Shults,  
Toulon IL

73 and good DX, Jim

# NORTHERN FM-DX

Ralph Strobel, editor  
2510 E. McGalliard Rd.  
Muncie, IN 47303  
(317) 288-5815  
Deadline: the 10th

APRIL 1980

For FM DXers in Canada, the Northwest-Central states of WA OR ID MT WY ND SD NE MN IA MO and states east of the Mississippi River and north of the Mason-Dixon Line.

Joe Markewicz - 524 N. Oakbend Dr. #305 - Duluth, MN 55811

The end of a DX era occurred in Duluth when I helped Bruce Elving take down his famous FM antenna. It's not often that you are able to do antenna work on the 1st of January. Just before we tore it down, I was able to hear the elusive CJSD Thunder Bay. My time in Duluth will be limited until June. March will see me down in the Caribbean, mostly the Virgin Islands and Puerto Rico. After that, I'll be living in Prince Edward Island and by May, I will be living in Winnipeg until sometime in June. By then, I hope to have completed my degree during the University of Manitoba spring semester. At least with all this travelling, I will be able to hear Newfoundland on FM.

73

Robert Grant - 5775 Bishop - Detroit, MI 48224  
Equipment: Sony ICF9640-W, w/rabbit ears.

August 1979

08 tr 0830 CHRE 105.7 ON St. Catherine's, ID 180

A very good IDer, but no QTH ever monitored for 2 hours.

January 1980

06 Es 1830 WNSU 87.75 LA New Orleans, N, ID 970

1855 UNID 92.5 or 92.7, MoR music

Yes, this is my first FM report! Reason: FM DX SPINKS! in Detroit on a rx with built-in, non-overideable AFC. Only two DX openings made it thru Detroit total congestion! I would like to know if I could kill the AFC on my Sony ICF9640-W radio. This appears to be a very good radio for FM DX (if I can get rid of the AFC!). Your help would be appreciated. Yep, that's it! If you're thinking of a "listening" radio for FM the ICF9640 is for you. It has good "fi" for the price. However, if you listen to or DX BCB, FORGET IT! Sony would have been better off leaving it out of this radio! BCB sensitivity is poor, selec. HORRID and image rejection near ZERO! BCB freq. response is about 50-500 Hz! compared to FM on the same rx at 50-13000+! And, if you can kick the AFC out, this rx would be very gud for FM DX.

73 & gud DX, Bob

\*\*\*\*\*

Dave Brumfield - 320 1/2 N. Calvert St. - Muncie, IN 47306

Equipment: 2270 Marantz Rx & Heath AJ-1510, Winegard antenna at 50 ft. w/rotor.

(Editors note: DX from 6/1/79 to 8/17/79 was heard from Dave's old address near Ball State University. The remainder is from my address, as Dave lived here up to 3/29/80).

6/1 Es	8/14 tr			
1130 KMJD 92.1 CO Castle Rock	1050 0018 WXBQ 96.9 TN Bristol, (ex-VA)	325		
1145 KBLJ 92.1 CO La Junta	1025 0038 WQUT 101.5 TN Johnson City	325		
1146 KBUF 97.3 KS Garden City	880 8/17 tr			
1245 KULL 94.5 KS Scott City	860 1114 KFMP 102.9 MO Cane Girardeau	325		
1255 KTCL 93.3 CO Fort Collins	1050 1205 KFBN 102.9 AR Jonesboro	450		
1316 KWLS 93.1 KS Pratt, o/WNAP	735 1230 WZZO 102.9 MS Jackson	650		
1320 KGNU 88.5 CO Boulder	1075 9/4 tr			
1322 KYGO 98.5 CO Denver	1070 0200 WAXX 104.5 WI Eau Claire	450		
1325 KTAQ 93.5 WY Riverton, o/WANZ	1235 0230 WWTB 103.7 WI Ladysmith	450		
8/8 tr	0245 KGRS 107.3 IA Burlington	325		
0304 WOKI 100.3 TN Oak Ridge	315 0300 WTRQ 104.9 IL Pekin	250		
0402 WIVK 107.7 TN Knoxville	325 0430 KTWI 105.3 IA Dubuque	325		
0426 WBEZ 92.9 TN Nashville	300 9/5 tr			
0450 WZYP 104.3 AL Athens	410 0135 WKAN 104.9 WI Kaukauna	350		
0513 WBNT 105.5 TN Oneida	275 0144 WROB 94.3 WI Neenah	320		
0612 WBYN 89.7 TN Chattanooga	360 0150 WKKB 92.1 WI Manitowoc	200		
0615 WBT3 89.5 TN Johnson City	325 0200 WDDC 101.1 WI Fortate	325		
0651 WLOS 99.9 NC Asheville, o/WVUD	325 0250 WPKR 100.7 WI Racine, o/WBEZ	220		
8/13 tr	0305 KSTN 91.1 MN St. Paul	515		
2355 WVR 89.1 VA Roanoke	450 (All stations new - CST)			

(Due to a very busy schedule and possible lack of DX for next month, this lengthy report will be continued in the May issue. Reports are usually slim during these dreadful last weeks of winter when DX is by far the poorest. The good months will soon be upon us, so stand by! Much more to come in months ahead!)

# SOUTHERN FM DX

Danny Buntin, editor  
1312 N. Skyline St.  
Stillwater, OK 74074

DEADLINE: the 10th

GULF TR HELPS MAKE UP FOR A ES-LESS FEBRUARY

SFM DX during February wasn't quite as good as January, particularly Es-wise. In fact, no Es at all was reported for February. For a good while it looked like a blank month for everybody until some Gulf ducting took place for the TX dxers during the 20-23 period. Loggings then ranged up to 800+ miles. Hopefully, with a new DX season coming up everyone can get busier.

Rick Sanford, 404 S. McNeill, Burnet, TX 78611 - Feb. 7 to March 5 CST

There was only one semi-respectable opening amidst February's diverse weather, with the best catch of the session(WBGM)being somewhat more than 800 miles distant.

2/15 (all tr)

1025 XHAAA 93.1 TAM Reynosa, ID in EE,  
ID in SS at 1033, first time call heard

2/20

1017 WRPM 107.9 MS Poplarville, "\$-108",  
ID, MS Psa

1922 KSMB 94.5 LA Lafayette, area concert  
info, K-94 concert line: 235-KSMB

1959 WKSJ 94.9 AL Mobile

2015 WLIN 95.5 MS Jackson, ID, "FM-95"

2021 WZZQ 102.9 MS Jackson, "ZZQ-102", ads  
after 2030 gone for about 1 1/2 hours.

2229 WBGM 98.9 FL Tallahassee, "Talla-  
hassee's FM-99", r, fading by 2300 ID and  
gone soon afterwards, previously by es.

2/20

2240 KRVS 88.1 LA Lafayette, heard previously  
at 88.3, as 10-watter?, evidently a marginal  
increase in power accompanied the freq. change

2243 WAJB 107.3 FL Pensacola, "JB-107",  
ID, m

2305 KHOM 104.1 LA Houma, out of local nx and  
wx

2310 WPFM 107.9 FL Panama City, ID

2358 WRKF 89.3 LA Baton Rouge, new station,  
j, "you're listening to Discs and Data on  
Moonglow With Martin" J

2/21 XVS

0100 KYUS 105.1 TX Lufkin-Wacogdoches,  
ex-KLUF-FM, now r R

Tim McVey, route 3, Box 568, Bolivar, TN 38008 - Jan. 1 to Mar. 1

Equipt: JVC JT-V22 stereo tuner, Finco FM-5 at 40" with Channel Master 9512-A rotor.  
(the pliers go back to the tool box!!) (Way to go, Tim. DB)

1/6 Es!

1815 WDBN 94.9 OH Medina 584

1820 WAUP? 88.1 OH Akron, c \$ 586

1822 WUSE 93.3 NY Jamestown, state #31,  
(first heard this opening at 1805, had to  
leave at 1825.)

1/17

1500 WTHJ 94.3 TN Lobelville 75

1/18 tr

1950 WFBQ 94.7 IN Indianapolis 355

1952 WAAG 94.9 IL Galesburg 403

1954 WDWZ 95.1 IL Decatur 322

1958 WNAP 93.1 IN Indianapolis

2104 WSEI 92.9 IL Olney 242

2108 WMLX 94.1 IL Mt. Vernon 200

2110 WYER 94.9 IL Mt. Carmel 228

2115 WISU 89.7 IN Terre Haute 307

2125 WCRG 95.7 IL Effingham 264

2130 WLRW 94.5 IL Champaign 358

2135 WWHI 105.3 IN Evansville 194

2138 WFML 106.5 IN Washington 251

2150 WVJC 89.1 IL Mt. Carmel 228

2200 WLL 90.9 IL Champaign-Urbana 358

2202 WUOL 90.5 KY Louisville 272

2210 WVUB 91.1 IN Princeton 214

2220 WRAY 98.1 IN Princeton 214

2230 WTLG 105.7 IN Indianapolis 355

2235 WBNQ 101.5 IL Bloomington 365

2/22 tr

(This opening wiped out TV-2 through 13!  
Since I had to go to school at 0730(darn!), I  
did this hurriedly. So, no exact times except  
they all came in from 0700-0725.

KYND 92.5 TX Pasadena	545
KYKR 93.3 TX Port Arthur	474
KQXY 94.1 TX Beaumont	472
KILT 100.3 TX Houston	543
WQNZ 95.1 MS Natchez	283

Here's the Houston FMs added to my logbook:

KLEF 94.5	KODA 99.1
KPMK 97.9	KAUM 96.5
KHCB 105.7	KLOL 101.1
KIKK 95.7	

2/23 tr

0815 WBAM 98.9 AL Montgomery, r, \$	247
0821 WNLA 105.5 MS Indianola	152
0828 WAFB 98.1 LA Baton Rouge	365

2/24 tr

1900 WEVC 91.5 IN Evansville	194
------------------------------	-----

2/25 tr

1735 KOFM 104.1 OK Oklahoma City	515
1750 WHER 103.7 MS Gattiesburg	280
1759 WQID 93.7 MS Biloxi	343
1805 WBIE 101.5 GA Marietta	270

cont.

## SOUTHERN FM DX

McVey, cont.

APRIL 1980

2/25 tr  
1810 WLAG 104.1 GA La Grange  
1910 WBYU 95.7 LA New Orleans  
1915 WNO 89.9 LA New Orleans  
19-- unID 104.1 r, \$, WJBM Jerseyville? QRM:  
19-- WIKY 104.1 IN Evansville, all 194  
104.1 listings due to WKIR Jackson off air.  
1905 WBLX 92.9 AL Mobile 322  
1907 WKSJ 94.9 AL Mobile

2/26 tr  
1520 WCLD 103.9 MS Cleveland  
2045 KAKI 107.1 AR Benton

2/29 tr  
(all it takes is a good antenna...)  
1000 WALP 90.5 MS Corinth  
1325 K777 97.7 AR Augusta  
1328 WCNA 98.3 AL Scottsboro  
1930 WOCG 90.1 AL Huntsville

So this time there's lots of "local tropo" to fill in the spaces around a 250 mile radius of QTH. I am hoping for lots of 500+ mile tropo and Es this spring, especially with my new antenna. Most of the loggings in this report are there because the Radio Shack TV antenna just wasn't directional or sensitive enough. (it's little more effective than a coathanger, hi) the 10-element Finco FM-5 was put up on Feb. 24, and it works super! I am shooting for at least 500 by 1981. I'm at 383 now, with 30 (maybe 31) states. 73

Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - Feb. 5 to Mar. 6 CST  
Equip: Realistic TM-1001 into an Allied 426; 6-31. Archer antenna at 20 ft. with rotor.

2/20 (all tr)  
0740 WAFB 98.1 LA Baton Rouge, ID 450

2/21  
0101 WRKF 89.3 LA Baton Rouge, ID, s/off

2/22  
0732 X--- 93.1 TAM Reynosa, local ad 230

2/23  
0030 WRKF 89.3 LA Baton Rouge 450  
0058 KRBS 88.1 LA Lafayette, ID 395  
0120 KATD 97.3 TX Beaumont, ID 275

Not too big a report this time, but since there was one good tropo opening I thought I'd send it along. Most of the trop from high temps in the 80-90 range (but short-lived since cold front would come along and change it to 30-40 deg.). Feb. 23 opening with weather info from FM (and TV) stations in it seemed all the places had 61 deg. temp. 73.

John Zondlo, 1802 N. Rockwell, Apt. 107-Bethany, OK 73008 - Jan. 6 to 19 CST  
Equip: Sony ST-5130 tuner connected to 1/2 Channel Master Stereo Probe 9 antenna.

1/6 tr (all new)  
0001 KMAG 99.1 AR Fort Smith

1/6 Es  
1550 WIQY 98.7 FL Fort Pierce,  
(Treasure Coast wx)  
1601 WCIE 91.3 FL Lakeland  
contemporary Christian mx  
1602 WRMB 89.3 FL Boynton Beach, ID  
1607 WOVV 95.5 FL Fort Pierce, r, DJ Linda  
1619 WELE 105.9 FL Deland, wx, spots  
1623 WHLY 106.7 FL Leesburg  
1647 WDIZ 100.3 FL Orlando  
1650 WYVA 94.1 VA Yorktown,  
road closure report  
1700 WMTM 93.9 GA Moultrie, k

cont.

2/29 tr  
19-- WREN 88.1 TN Nashville  
19-- WSMC 90.7 TN Collegedale

3/1 tr  
0905 WSIU 91.9 IL Carbondale 181  
0930 WSLM 98.9 IN Salem  
1010 WLRW 94.5 IL Champaign 358  
1105 KMBQ 93.7 LA Shreveport 343

3/2 ??  
1620 WOEM 94.9 TN Greeneville, prev. 347  
heard by MS; this time it's strange tropo  
1645 WQDR? 94.7 NC! Raleigh, tent., rp, \$, 572  
(very weak, but heard ad for rock concert (in  
\$) with UFO and somebody else (fade) "Tickets  
available at Ross and Babcock and the usual....  
and out of town outlets." Somebody in NC  
please tell me if there was a concert in town  
about this time. This could be state # 31!!!!  
1930 KLUM 88.9 MO Jefferson City

2/23  
0144 WXEL 105.3 TX Slidell, soul, ID 530  
0202 KVVP 105.5 LA Leesville, ID 340  
0320 WAFB 98.1 LA Baton Rouge, local psa 450  
0322 WLWI 92.3 AL Montgomery, k, ads 750  
0339 KBAM 98.9 AL Montgomery, wx 750  
0359 KTDY 99.9 LA Lafayette, ID 395  
0400 WHLQ 96.9 AL Enterprise, ID 765  
0401 KYKR 93.3 TX Port Arthur, k, ID 280  
0402 WALT 97.1 MS Meridian, ID 620  
0412 WYNN 101.5 LA Baton Rouge, ID 450  
0417 WFMF 102.5 LA Baton Rouge, ID 450  
0622 KSLI 96.9 LA Alexandria, local ad 385

1719 WSQJ 98.3 GA Jesup  
1727 WBEU 98.7 SC Beaufort, Ae nx  
1739 WEQR 96.9 NC Goldsboro  
1745 WXTG 96.9 SC Charleston  
1748 WBAG 93.9 NC Burlington, k  
1758 WMPR 88.1 SC Sumter, SC rec. outlook  
1800 WSMC 90.7 TN Collegedale  
1801 WGWG 88.3 NC Boiling Springs, local nx  
and Christian mx  
1812 WSFL 106.5 NC Bridgeton

1/18-19 tr  
2257 KLUP 97.9 OK Poteau, g w/Len Drury  
2305 KOOI 106.5 TX Jacksonville, s/off  
2328 KROZ 92.1 TX Tyler, k  
2347 KETR 88.9 TX Commerce, r w/YL DJ

## SOUTHERN FM DX

Zondlo, cont.

APRIL, 1980

1/18-19 tr (all new)  
2352 KMMK 95.3 TX McKinney  
0018 KPMN 107.9 TX Abilene, r  
0021 KYKX 105.7 TX Longview, "kicks", r  
0030 KBEZ 92.9 OK Tulsa, b  
0038 KTYL 93.1 TX Tyler, r  
0050 KRMD 101.1 LA Shreveport, k,  
w/Curtis Alexander

## FROM THE EDITOR:

There hasn't been any DX here at SFM headquarters since Jan. 18. Unlike Jan., Feb. got its share of cold weather and the few warm spells weren't accompanied by much moisture; that usually doesn't cut it for tr development. Hope everyone is getting geared up for the new DX season, weather obtaining new equipment or paying closer attention to conditions. There were some errors in my February report and should stand corrected as such: KASX and KGOK should be underlined as new, correct freq. for KGOK is 97.7 and correct call letters for 98.9 Oklahoma City is KTLS. Until next month, 73.

REPORT YOU FM DX TO THIS COLUMN IF YOU ARE FROM: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, NC, NV, OK, SC, TN, UT, VA, & WV.

## NPR's SATELLITE INTERCONNECTION SYSTEM (continued from page 7)

satellite system is the choice it gives to local program directors. If a United Nations debate is being aired and the time for All Things Considered arrives, the debate may continue on one satellite channel while ATC goes on, as scheduled, on another. NPR need no longer make decisions which might not agree with local audiences.

Currently, four of the possible 12 satellite channels are in operation. As more are added and filled with programming, it will become virtually impossible for human technicians to perform the necessary switching tasks without error. Currently in development is a computer-controlled Main Origination Technical Center to be built into NPR's Washington headquarters. It will not only control audio switching and tape playbacks, but will have remote control, via satellite, of the other 16 uplinks! Digital data will be sent both ways to the RT sites by low-powered, narrowband "coordination channels", shown as "F1" and "F2" in the frequency plan. Channel F1 will carry three pieces of information outbound from Washington on a time-sharing basis: 1) remote control of uplink sites, 2) remote control de-modulator tuning and tape-recorder rolling at receiver sites, and 3) teletypewriter messages and advisories for member stations. These services are currently delivered in cruder fashion by sending audio tones down the network lines between programs and by using a much slower teletypewriter system. Channel F2 will carry uplink status data from all 16 uplinks on a timesharing basis. Probably the most serious problem that will be avoided by the automated satellite system is that of "double illumination", the turning on of two uplink transmitters on the same frequency at the same time. (You can imagine how two FM stations would sound broadcasting simultaneously on the same frequency to the same city.)

NPR has high hopes for the future of its Satellite Interconnection System and hopes to use it to bring a wider variety of high quality programs to the public radio audience.

**DON'T MISS WTFDA'S  
1980 CONVENTION.  
DUNKIRK, NY. AUG. 1-3. WATCH FOR INFO.**



# FM NEWS

Bruce F. Elving, Ph.D., Editor  
4515 Avenue "E"  
Kearney NE 68847 (pronounced car-nee)

## New Stations Granted

AL Center Point W268-A 103.1 (WMBF \*89.9 translator); gospel music; UPI audio, no stereo  
AL Dothan W204AA \*89.7 (WPCS 89.3), Stereo, 3, ABC Entertainment, 1-watt translator  
AZ Flagstaff (and Winslow) K206AB \*89.5 S, jz (KMCR \*91.5) National Public Radio  
CA Laguna Beach K22AAJ 92.7 (KKGQ 105.1 Los Angeles), jz, Stereo, UPI Audio affiliate  
CO East Salt Creek and Douglas Creek Rural Area (39-36-00; 108-47-42 are its geographical coordinates to help you find the exact location of K261AL 100.1 S (KQIX 93.1 Grand Junction CO translator), rock, Mutual  
CO Gunnison 90.3 3000 h.v.; 300 feet; rock  
CT Williamam \*90.1 444 watts; 75'; E. CT State College

FL Dunedin 92.1 3000 h.v.; 285'; Stereo, m. KS Seneca K221AM 92.1 rock (KNDY-FM 103.1 Marysville KS translator), UPI Audio  
MA Winchester 97.7 3000 h.v.; 300'  
MS Lexington 100.3 3000 h.v.; 300'  
MT Drummond K257AK 98.3 Stereo, middle of the road music, ABC Information, 10 watts, KOPR 94.1 Bette MT FM translator  
NM Alamogordo 94.3 3000; -450'; m - music  
NY Brockport \*90.9 3000 h.v.; 300'; SUNY  
NY Nyack \*88.7 10 watts; Nyack College  
NY Tupper Lake 102.3 89 watts horizontal and vertical effective radiated power, 1450 feet above mean sea level, middle of the road music  
NC Greenville \*91.3 100 watts; 135' E Carolina U.  
PA Philadelphia \*90.1 10 w. W. Phila. Ed. Bcstg.  
TX Bishop 107.1 3000; 280'; Spanish, Latin; stereo.  
UT Moab \*88.1 10 w; Uintah Ute Indians  
UT Moab, Plateau Resources Mining Site (sorry no coordinates available, so I have no idea where this translator is located) K252BF 106.3 S, rock, KALL 94.1 Salt Lake City U translator.

## Formats/Networks

CT New Britain WRCH 100.5 rock (from m)  
FL Fort Lauderdale WAFB \*90.3 Mutual  
FL Goulds WGLY 88.3 UPI Audio network  
FL Stuart WWCZ 92.7 AP Audio  
FL Vero Beach WAVM 105.5 (country), Wave-105  
ID Sandpoint KPNB 95.3 rock, jazz, country - to have been on the air by Dec. 1, 1979.  
IL Arlington Heights WMMR 92.7 middle of the road (from rock); "WN Radio" strict nonID.  
IL Chicago WDAI 94.7 rock (from disco)  
IL Chicago WBBB 97.1 classical (no jazz - all c)  
IL Monticello WVLU 106.5 gospel (road)  
IL Zion WCKZ country (from middle of the / IN Angola WEAX \*88.3 progressive rock, gospel  
IN Fort Wayne WFLP \*88.1 classical and jazz  
IN Goshen WGSZ \*91.1 classical and rock  
IN Greenfield WIKS 98.5 rock (from disco)  
IN Hartford City WWHC still 104.9 (to go to 93.5), new middle of the road and rock  
IN Indianapolis WISD 90.9 4, "Disco 91."  
IN Michigan City WBCB 95.9 p (not m)  
IN North Vernon WDCB-FM 108.1 country  
IN Plainfield WART 98.3 gospel (not "I")  
IN Nashville WRCR 94.3 middle/road and rock with soul. "Stereo 94."  
KS Hays KJLS 103.3 ABC Entertainment (not S)  
ME Orono KIBC 93.5 country  
NE Kearney KCM 103.3 AP Audio  
NH Concord WECN 106.1 r; "FM-106," no CBS  
NH Concord WKXL-FM 102.3 rock and m - music.  
NY Hamilton WRCU \*90.1 progressive rock, jazz  
NY New York WKUT 92.3 jazz and disco  
OH Akron WAUP \*88.1 jazz, progressive rock  
WKOD 98.5 rock  
OH Canal Fulton WMBR \*80.9 off air since last summer; many problems  
OH Cleveland WBOE \*90.3 off air (except its carrier is on so that talking back SCA can be on); sale of station from Board of Education pending.  
OH Cleveland WOLB 108.7 The Source (from U)  
OH New Philadelphia WWPB 95.5 progressive rock  
PA Beaver Falls WWPB 108.7 rock  
TX Fort Worth 102.1 p, "Q-102"

VT Brattleboro WKVT-FM 92.7 CBS, "Radio 93"  
VT Rutland WRUT rock, Stereo 97  
VT Stowe WRFB 101.7 country  
VT White River Junction WNHV-FM 95.3 country

## Facilities' Changes Granted

CA Chester K292AL 98.3 (from 94.3)  
FL Atlantic Beach WYFV from 104.9 to 104.5  
IL 30000; 650 feet; Stereo  
IL Flossmoor WHFM \*88.5 1500 (h); 92 feet  
IN Terra Haute WPRF 102.7 50000 h.v.; 500'  
KS Hutchinson KHUT 102.9 98000 h.v.; 430'  
MO St. Louis KADI-FM 560' (100000 h.v.)  
NE O'Neill KBRX-FM from 92.7 to 102.9, 100000 h.v.; 430 feet

OK Lawton KLAU 101.5 100000 h.v.; 590'  
TX El Paso KA KPAS 93.9 81000 h.v.; 1380'  
TX San Antonio KMFM 96.1 480' (100000 h.v.)  
VA Radford WRRF \*89.9 500 h.v.; 15 feet  
WY Cheyenne KFBC-FM 97.9 100000 h.v.; 540'; eliminates directional antenna

## Dual-City Identifications in Use

FL Jupiter WCEZ 96.7 EZ 97, adds Tequesta FL  
ID Boise 92.3 KBBK, Rock 92, adds Meridian ID  
IN Normal WIHN 96.7, 96-FM, adds Bloomington

## NonIDs or Slogans in Use

FL Boca Raton-Miami WKOS 99.9 Kiss  
FL Naples WRGL-FM 93.5 G-93  
FL Riviera Beach WNYJ 94.3 Joy, FM-94  
IN Carmel WHJE 101.3 FM-101  
IN Lowell WLCL 107.1 FM-107  
IL Greenview WGVG \*91.7 G-92  
RI Providence WRIJ 94.1 FM-94, Joy  
TX Corsicana KXCL 107.9 Country Lovin'  
TX Dallas KAFM 92.5 92 plus, gospel SCA with Mormon readings one night per week  
TX Denton KDNT-FM 106.1 D-108  
TX Fort Worth KNOK-FM 107.5 FM-107, soul  
VT Burlington WEZF 92.9 Stereo 93  
WQCR 96.9 Q-99

VT Middlebury WCVN 100.9 FM-100

## Stereo, or to go Stereo

CA Santa Monica KCRW \*89.9  
CO Fort Collins KCSU \*90.9  
KS Pratt KWLS-FM 93.1  
MA Cambridge WMBR \*88.1  
NM Albuquerque KANW \*89.1  
PA Selinsgrove WOSD \*88.9  
WY World KENB 95.9  
BC Vancouver CJAZ 92.1 (heard testing)  
ON London CJBX 92.7, BX-93, country

## Call Letters Assigned or Changed

AL Andalusia 98.1 WKYD-FM (WGHQ)  
AZ Mesa 104.7 KZZP-FM (KIOG)  
AZ Prescott 103.9 KAHM  
AR Conway 105.1 KMJX (from KKLK)  
AR Helena 103.1 KZRI (from KCRI)  
HI Lihue 93.5 KPOY  
IL Princeton 98.3 WZCF-FM  
IL Springfield 98.7 WNNB  
IA Iowa City 100.7 KKRO (KICG)  
KS Wellington 93.5 KZED  
MI Dearborn 100.3 WHIC-FM (WNIC)  
MI Houghton 97.7 WRHU  
MN Little Falls 92.1 WYRQ (WLFE)  
MN St. Paul \*91.1 KSJN-FM (KSJN)  
MS Gulfport 107.1 WZKX (WROA-FM)  
NE McCook KICX-FM 95.9, stereo, rock, ABC Information ON AIR (1800 h.v.; 300')  
NV Las Vegas \*91.5 KUNV  
NJ Long Branch 107.1 WNUU (WRLB)  
NY Southold 101.7 WBAZ  
NY Woodstock 100.1 WDST  
NC Eden 94.5 WSRQ (WEAF)  
OH Salem 105.1 WDXK (WSOM-FM)  
OK Broken Arrow 92.1 KMYO (KGOW)  
PA Elizabethtown 106.7 WRKZ (WPCF-FM); k  
PA Williamsport 102.7 WKSB (WRAX-FM)  
SC DL George 107.5 WDWQ (WDJZ-FM)  
SD Pierre 96.3 KNEY  
TX Edinburg 107.9 KVEL (KESI)

VA Ashland 100.1 WYFJ (WIVE); translators at Stafford, Fredericksburg and Charlottesville all now carry WYFJ and not WIVE.

VA Crozet 102.3 WCMZ

VA Sweet Briar \*91.5 WUDZ

SCA (67 kHz) Subcarriers

MA Marshfield WATD 95.9 talking book for the blind only  
MN Duluth WAKX-FM 98.9 ABC networks  
OH Newark WCLT-FM 100.3 adds SCA

VT Brattleboro WMMJ 96.7 music

Stations adding Dolby

AL Mobile WHIL \*91.3, AK Ketchikan KRBD \*105.9, AZ Tucson KUAT-FM \*90.5, CA Cathedral City KWKY 96.5, CA Los Angeles KIOG 100.3, CA San Diego KIFM 98.1, CA San Luis Obispo KCPK \*91.3, MI Grand Rapids WVGR \*104.1, NV Las Vegas KNPR \*89.5, NM Las Cruces KRWC \*90.7, NY Buffalo WWOJ 104.1, NY Ithaca WHCU-FM 97.3, NY Rochester WPKY 97.9, OH Salem WKXK 105.1, OH Steubenville WKRY 103.5, PA Philadelphia WSNH 104.5, PA Pittsburgh WPHI-FM 101.5, UT Centerville KCKL 105.5

## Stations without Dolby

CA Berkeley KBLX 102.9, CA San Diego KGB-FM 101.5, CT Bridgeport WZLW 98.9, ID Moscow KUOI \*89.3, IL Aurora WVKP 95.9, IL Carbondale WSIU \*91.9, MI Detroit WJZZ 105.9, MI Flint WGMZ 107.9, NY Buffalo WGRQ 96.9, NC Raleigh WQDR 94.7, OK Stillwater KOSU \*91.7, OR Portland KINK 101.9, PA Pittsburgh WOEZ-FM \*89.3, SC Columbia WDOG 107.5, TN Chattanooga WSKZ 106.5, WV Morgantown WVAQ 101.9

## Readers' Reports, Comments

Maine's Rod O'Connor is on the board of trustees of a new public access station trying to get on in Portland, with 89.3 and 91.5 as frequency possibilities. A FL traveler, Eric Fader says WSWN-FM 93.5 Belle Glade is a shabby run station. Butchered commercials by switching accidentally back to the basketball game they were covering in mid-spot, missing top-of-the-hour ID cues from the network, not IDing for 1 1/2 hours; and a horrendous tiny sound, all led me to listen to them for 2 hours straight one evening out of fascination. I am convinced that I was the only listener to WSWN-FM at that time!  
Still not on air--WNIN \*88.3 Evansville IN.

Many reporters have asked when the Sixth Ed. FM ATLAS will be out. Count on early May, with the price to be \$4.50 plus 50 cents 3rd class postage (\$1.00 first class postage), or two books book rate for \$3.50 each. Advance orders to my address above, o.k.

An FM SuperSnooper customer from TX writes "I have really enjoyed using the FM Super Snooper. I have enjoyed listening to the Dallas/Fort Worth stations with SCA programming, and I may start doing a SW/MW DX program over the SCA of KERA-FM '90.1 Dallas.' Charles George also notes that the Mormon church program on KAFM 92.5 Dallas' SCA is Mondays 7-8 p.m.  
Production of SuperSnoopers is slated to stop at 100 units, or about 20 units from now. I do not plan to buy any more cabinets, and the IC is getting hard to find. Time can better be spent putting SCA into radios--the SuperSnooper will be a collector's item!

Contributors:  
Greg Ballak, Joliet IL (who thinks the McIntosh MR-80 is great new tuner); P. Boersma, Spring Lake MI; J. D. Buehler, Toledo OH; J. Ebeling, Bloomington IN; Eric Fader, Bayside NY; C. George, Dallas TX; S. T. Hancock, N. Canton OH; John M. Jefferson, Pleasanton CA; A. H. Ellis, Brantford, Ont.; Greg Monti, Silver Spring MD; Rod O'Connor ME; Tim Prouty, Dolby Labs, San Francisco CA; A. P. Smith, Dillsburg PA; Richard J. Steinberger, Hudson MA; Ralph Strobel, Muncie IN; Larry Weil, Acton MA. Larry drove into VT and NH to gather much-needed FM data from those areas! And Dr. Richard Wood, Cape Girardeau MO. Thanks!

# QSL CORNER

TV-QSL's

Thomas J. Yingling, jr.  
221 Pinewood Road  
Baltimore, MD 21222  
Deadline: 10th  
Phone # 1-301-262-5649

- AL WINT 10 Huntsville, Box 19, 35804. Send back prepared letter & post card signed by J. M. Hall, CE.  
BRMG 42 Birmingham, P. O. Box 6146, 35209. Send back my prepared form letter signed by CE, but name unreadable. Eddie  
WQFT 33 Tuscaloosa, P. O. Box 5239, 35405. Send back my prepared form letter signed by CE, but name unreadable. Also send CM & program schedule. Eddie  
AK KTEJ 19 Jonesboro, 350 S. Donaghey, 72032. Send back my prepared form letter signed by CE, but name unreadable. AETN (Ark. Educ. Tel. Net) Eddie  
KTVP 29 Fayetteville, 1 McBroy Plaza, 72701. Send rate chart & my prepared letter back signed by Dan Rowgasser, Station Manager. Eddie  
CT WEDN 53 Norwich, % WEDH-TV-24, 24 Summit St, Hartford, CT 06106. Letter from John V. Kean, Vice Pres. Engineering. Used a sase, but came back in station's own envelope, with reply in 11 days. Wolf  
KY WDRB 41 Louisville, 1051 E. Main, 40206. Got zerox copy of own report form letter, with note of verification from R. M. Cleveland. Reply came after a 5 year 3-month wait!!! I forgot all about that I reported to them. Yingling  
WXYT 27 Lexington, Box 5037, 40505. Multi-color card, sign by Hal Schumacher, CE in 2 weeks. Ross  
WLKY 32 Louisville, Box 6205, 1918 Mellwood Ave, 40206. Letter from aul C. Kelley, CE & CE, & reply in 2 weeks. Ross  
WKMU 21 Murray, 600 Cooper Dr, Lexington, KY 40502. Letter from Dir. of Eng. unreadable name. Eddie  
IL WFLD 32 Chicago, 300 N. State St, 60610. Letter signed by William P. Kusack, Engineering Manager. Reply came in 1 month. Wolf  
IA KHIN 36 Red Oak % P. O. Box 1758, Des Moines, IA 50306. Send back my prepared form letter, signed by Don Saverail, Dir. of Eng. of IPRN. Eddie  
KTIN 21 Fort Dodge, same address as above. Send verifying letter & coverage map from Don Saverail, D. of E. member station of IPRN. Eddie  
NC WQHP 8 High Point, 400 N. Main St, P. O. Box 2688, 27261. Letter from Benjamin F. Mann, Technical Operations, 4 days to reply. Traska  
OH WTOV 9 Steubenville, 320 Market St, 43952. Letter signed by Marvin L. Hite, CE. Reply back in 12 days. Wolf  
WDHO 24 Toledo, 300 S. Byrne Rd, 43615. Letter from Ernest Rety, CE in 12 days. Yingling  
WKEF 22 Dayton, 1731 Soldiers Home Rd, 45418. Letter, unreadable name, ce. Eddie  
W47AB 47 Mansfield, % WOSU-TV-34, 2400 Olentangy River Rd, Columbus, OH 43210. Letter for report of translator, signed by Dale Tish, Eng Manager, send list of translators & thanked me for SASE. Reply in 28 days. Wolf  
PA WPGH 53 Pittsburgh, 750 Irory Ave, 15214. Send qsl card & my prepared form letter back, but unreadable signer name, but is the CE. Eddie  
TN WTCT 45 Chattanooga, 4411 Annicola Hwy, 37406. Send my prepared form letter signed by Robert Briscoe, CE, State Dept of Education. Eddie  
WRCR 3 Chattanooga, 900 Whitehall Rd, 37405. Letter with apology for late reply, sign by Robert E. Glenn, CE. Reply in 54 days! Wolf  
VA WSL 10 Roanoke, P. O. Box 2161, 24009. Letter from Donald Jones, CE in 5 weeks. Traska  
WSVN 47 Norton, 1215 McNeil Dr, SW, 24032. Letter from E. V. Recrode, Jr. Executive Vice President & General Manager. Reply in 7 days. Wolf

Reporters this time for an all TV QSL Month are: Richard Eddie of St. Louis, Mo; Robert Ross of London, Ont; Paul Traksa of Buffalo, NY; Jeff Wolf of Silver Spring, MD, & Tom Yingling of Baltimore, MD editor. See you all next month with all FM QSL's.

Tom Yingling

# WESTERN TV-DX

April 1980

New      New Mode      Tentative - t      Unidentified - unid

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228      CST

Equipment: 1976 9" Penncrest b&w, Archer V-100 & 8-bay bow-tie UHF array at 20'

## February 1980

8 Es 0345- unids ch 2-4	20 tr 0027 KLFY 10 LA 395	23 tr 0625 WDM 7 MS 570
0414 KNCBt 4 CA 1190	0724 WRBT 33 LA 450	KFDM 6 TX 275
KNXT 2 CA 1190	0726 WLPB 27 LA 450	*0632 KLAAt14 LA 430
0435 KVBC 3 NV 1050	0727 WAPT 16 MS 525	0640 WLPB 27 LA 450
0500+ f/outs	0729 WMAH 19 MS 570	0650 WGN 26 LA 510
11 Es 1850 XHBCt 3 BCN1010	0755 KPLC 7 LA 325	unid 24
1903 KOAI 2 AZ 855	1159 KFDM 6 TX 275	unid 15
1935 f/outs	23 tr 0000 XET t 6 NL 275	0656 WRBT 33 LA 450
12 Es 0950 WRBLt 3 GA 830	0005 XHX t10 NL 275	0700 WYEA 38 GA 330
0957 WSB 2 GA 880	0129 WRBT 33 LA 450	*0705 WCFTt33 AL 700
1005 spotty -1030f/o	0511 WJTV 12 MS 525	*0715 WBMgt42 AL 750
1750 unids 2-4	0519 WAFB 9 LA 450	unid 48
1759 WJWB 2 MI 1225	0520 WRBL 3 GA 830	AL & GA U's to 0930+
WKYC 3 OH 1250	KNOE 8 LA 440	24 Es 1135-1155 unids 2 nw
1800 KTCa 2 MN 1110	0521 WTVM 9 GA 830	25 Es 1815 unids 2-4 s/se
2000+ fade/outs	0530 WBRZ 2 LA 450	1825 YSR 2 ES 1200
13 Es 0805 KDKAt 2 PA 1280	0538 WVUE 8 LA 510	1830 TGV 3 GU 1120
1900-15 unids 2 ne	0554 WCOV 20 AL 750	1925 f/outs
1955-	0555 WAPT 16 MS 525	(didn't stay in enough
2005 KNXTt 2 CA 1190	0557 WKRG 5 AL 630	to link to any TE)
20 tr 0010 KPLCt 7 LA 325	0601 WKAB 32 AL 750	27 tr 0710 WBRZt 2 LA 450
0013 WAFB 9 LA 450	KATC 3 LA 395	WAFBt 9 LA 450
	0613 unid 46	0725 KPLC 7 LA 325
	0625 KALB 5 LA 385	KALBt 5 LA 385
		WMAut17 MS 470
ES - El Salvador GU - Guatemala * - NBC ** - CBS	28 tr 0758 WAPTt16 MS 525	

Es dwindled as normal toward the yearly March minimum. The tropo openings were often the result of unusually warm (even for here) days of 80-90°F, but usually got blown away when a cold front arrived (and put the temps down in the 30-40 range). 73, Pat, WA5IYX

Fred McCormack, Box 5221, State University Sta., Fargo, ND 58105

Another month has gone by with no DX. We have had a rather mild winter, but I never saw any tropo develop; certainly nothing to compare with Pat's excellent loggings.

From my Des Lacs QTH I did log two new Canadians. They are both satellites of the french language station CBWFT-3. One of them, CBWFT10, is channel 21 from Brandon, and the other, call letters unknown, is channel 26 from Bellegarde, SA. Both are semi-local distance, but their low power makes reception poor.

Also, I identified the location of CFSS, channel 3, which I reported in February. According to the CKOS engineer, it is located at Wamley, SA. I can not find this on the maps, but he gave me the coordinates, and it is about 20 miles more distant than when it broadcast on channel 7 from Carlyle Lake. They use 100 kw from a tower that is 1276 feet above terrain, and I am sure they will be seen often on Es around the country. CFSS is a satellite of CKOS and although they use their own ID slide most of the time, sometimes ID's as CKOS will be seen. Don't confuse this with the CKOS-3 Yorkton which has been logged by many DX'ers in the past. CKOS, Yorkton, now operates on channel 5.

# EASTERN TV-DX

Robert Kinner  
3406 W. Pierce  
Chicago, IL 60651

APRIL 1980

Deadline: 5th

Sorry about the sudden end to last month's column, but my typewriter ribbon was getting too well used and I didn't have the money to replace it. We will continue with the rest of Bob Grant's report.

General Bob Grant 5775 Bishop	Detroit, MI 48224 (EST/EDT)
September	15 F2 0900 EBC1 45 MHz
27 Tr 0550 WNEB-17 NY 215	EBC1-B2
0620 W6TJ-67 MI 43	Europe cope
WUTV-29 NY 205	35-49 MHz
October	MUF 53 MHz
30 Tr 2200 WICU-12 PA 140	24 1144 UnidEd-2 625
Buffalo 2 & 4	line CCI
December	1147 KFT-3 CA T
2 F2 1100 5 USSR Wood-	"Good Morning
peckers 42-46	America" with
NHs	3 hour delay.
TF1-F2 France	27 Tr 0100 South Bends
BBC1-B1	0210 WGN-9 IL 250
assorted AZ WA	0220 WFLD-32 IL 250
MT, CA & NY PSB	

"Hi, 1979 draws to a close at last. It was a helluva year! I first picked up on 5/22 with something absolutely new, skip! Before the WEDU logging I had thought E-skip was an exclusive of M.I.T. masters with radiotelescopes (it is, the doorman must have been asleep and let you in, hi, ed.)! I QSLed WEDU and the chief engineer said "I hope you get WEDU again" (you will, I promise, boy will you, ed) I can say with great confidence his wish has been granted, I got WEDU 4 more times so far (don't say I didn't warn you, ed.). A small tropo opening on 6/2 brought in a few newies. Then came the huge E-skip spillover from 6/24-7/1. Most noteworthy was the 6/30 simultaneous Texas and Maritime openings. (Did anybody in TX get 2Es to the Maritimes, or vice-versa during this opening?) Vacation time on Olatte Lake, 30 miles NW of Traverse City (no, that's not underwater, hi) but a good 50 miles away from WGTU-29's xtr. (WGTU is currently under heavy FCC scrutiny). For the distance reason, WJWB-11 is the prominent ABC affiliate. These vacations are not made for DX, they are for good old "R&R". I brought an old 4 element VHF antenna from a friend, and some cheap twin lead from the local Radio Shack, and took the 12' Sears portable up to the hide-away, a couple of rafters held the antenna up (no they didn't take all the antenna's money at gunpoint, hi). Great loggings were made by skip, but WBY was a problem. So many UNID stations were seen that I didn't log them all. The poss. El Sal. ch. 6 "Canal Sae" logging is now eliminated, the time was 1600 EDT and the pgn. was educational, could it be XHTI-FUE? Another interesting catch was a CBTP W/SS audio. ICE2-2 is a little far for 1Es, as per there was no sign of WTHS/WPBT, it could be CHKU-2 by 2Es (Bob, all of Cuba is possible in Detroit by 1Es, ed.). The 7/24 WJWB catch is definitely not Tr or GW. Skip was in at the time and GW doesn't fade in and out (it does if the extended groundwave distance maximum keeps getting longer and shorter. This is far too close to be Es, sounds like weak tropo to me, ed.). Lots of other great DX was seen including my first IDed Ma (I know that none of this is countable in my Detroit logs, but again I don't give a damn!) After a lot of swimming, fishing, and of course DXing, it was time to go back to Detroit and, alas, low band congestion. The usual pre-season tropo gave some fair relays. It opened up on 8/8 with my first XLTR W6TJ and some other gud DX. But that was nothing compared to 9/5 & 9/10 ultra-ducting. I was actually getting 400+ mile tropo on original monopole and loop! It blew my mind! 17 newies and enough UNIDeds to make the CCI column a daily magazine for 5 years! Right now I'm busy kicking my ankles for not installing the rabbit ears from the color TV (it went on fire just after I got back from vacation). On Dec. 2 I had given up on regular TV, so I took my old, broken Astronaut-6 and rehooked it for mediocre 30-50 DX. At 1000 a check on 30-50 showed nothing, so I went to 12-22 SW. A check at the top showed several USSR "woodpeckers" at 22 MHz, still slip on 30-50, so I went back to 22. An hour later I went back to my Astronaut 4 and to my astonishment, 4 "woodies" were on @ 42-46 MHz! I turned it down to 41 and heard ORTP! 8 minutes later I heard BBC1! On the 15th while I was DXing, I broke down beyond repair. On Christmas Eve I saw V-shaped lines over WJWB! I turned to ch3 and for a few seconds I saw "Good Morning America" on with heavy smearing. A bit of off season tropo on the 27th gave me 1 newie. And a little skip "season" gave me 4 newies, at 1830 on 1/6 I saw KATC/WLBT IDs back to back and a weird catch the morning after saw KGFE absolutely killing 1cl. on 3 MR. Dressup was in very short fades the day after that my parents had the color TV



General Grant, cont'

fixed. When I visited a friend's house a few months ago, he and my friend went to their basement to watch "60 Minutes". I turned the TV on and turned it to what I thought was ch. 2. The picture was a bit blurry (which could be expected in the basement). When the show was over I saw the WTOL ID and had said to myself "Channel 2 is really goofing it up tonight". Then I looked at the dial, it was on 11! And the antenna was a folded dipole/ reflector aimed at the Detroit locals. With this I have decided its antenna time. I am thinking of trying an experiment: cascaded preamplification in which the antenna is fed into a preamp whose output is fed into a preamp. Will the Peacock fly in Detroit? even if ABC is satisfied with its affiliates, that won't stop NBC from suffering. Here in the 7th market WDIV-4 has found it can often make more money by reaching for the bypass switch and presently bypasses so much that NBC are now known by many as a secondary NBC feed, and NBC has nowhere to go. WKND has the same indie-priority that WDIV has, and WGRB swears to remain strictly christian! Only possible solution would be to put up 3 kw IITRs. 1 each in Southfield, Warren, and Dearborn which would be microwave fed WKYC-3's signal. (What about WTVG-13 in Toledo, can't people watch that? I remember when I was in Toledo, all the Detroit stations were very easy to receive, ed.) 73 & good DX." (Bob, could you keep your comments brief? M.)

Paul Petokey Box 51 Trout Lake, MI 49793 (EST)

December	26 Tr 2130 WKAR-23 MI 240	26 Tr 2345 CISO-13 ON 112
20 Tr 2230 WLEF-36 WI 259	2200 WKOW-27 WI 310	CICO-12 ON 190
26 2020 WHRM-20 WI 257	2220 WMTV-15 WI 310	Sudbury
2030 WAOW-9 WI 257	WHA-21 WI 310	27 0030 CBLFT2-13 ON 190
WABO-12 WI 210	2330 CKNC-17 ON 112	0100 WTCN-11 MN 400
WBAU-7 WI 257	CKNC-9 ON 190	WBAU-13 WI 260
2130 WPNR-38 WI 185	CBLFT6-12 ON 112	WKBT-8 WI 342

"CICO-TV-26 in Sault Ste. Marie, Ontario (What happened to CICO-20?, ed) began programming a couple of weeks ago in French-this should prove to be an interesting DX catch-due to its low power. Have talked to Bill Drneb a few times-and even with his elaborate system still hasn't picked it up yet! Next week I am going to put up my GMAH for UHF and should prove to be a big difference for me. I am only 10 miles away to the nearest point to Lake Michigan-20 miles to Lake Huron-17 miles to Whitefish Bay that connects to Lake Superior-the closest point to north shore of Lake Superior is 40 miles. So, when DX funnels into Trout Lake- I can "grab" it all! Weather here has been great-just a trace of snow-otherwise you can see grass in most places. Its a very unusual year!"

Bob Zent 1835 Fruit St. Huntington, IN 46750 (EST)

December	28 Tr 2000 KRIM-32 IA 375	29 Tr 2300 WVVU-24 WV 298
15 Tr 2300 WBNH-55 IL 235	2100 KSHN-27 IA 575	WPGH-53 PA 295
Springfield	Sioux City	2314 WPCB-40 PA
2314 KDNL-30 MO 305	2102 KHNH-36 IA 525	Greensburg
Evansville U's	2327 KMEG-14 IA 575	
2317 Huntville U's	2330 KDUB-40 IA 300	
28 1131 WBTI-64 OH 150	29 2257 WPTT-22 PA 295	January
Cincinnati	Pittsburgh	15 Tr 1900 WTVK-26 TN 360
		WPCB-40 PA

Donald B. Ruland 4448-68th Place Kenosha, WI 53142 (CDT/CDT)

September	28 Tr 1630 WGVN-54 KY 310	29 Tr 2200 WJAN-17 OH 360
30 Tr 0645 KCCI-8 IA 310	W5BAC-58 KY 330	WPGH-53 PA 430
WHO-13 IA 310	1700 WKAS-25 KY 400	30 0515 WAKR-23 OH 340
December	Ashland	WIKY-32 KY 330
27 Tr 0540 WHO-13 IA 310	1800 WKYT-27 KY 360	WJAN-17 OH 360
0600 WTCN-11 MN 320	WTVQ-62 KY 360	WHIZ-18 OH 360
1800 KCCI-8 IA 310	WKIN-68 KY 330	0530 WKRC-12 OH 300
1815 KTSB-27 KA 470	WFIE-14 IN 320	WKIX-19 KY 300
1830 KEMA-41 MO 430	WBHT-25 IN 320	WBNS-10 OH 320
KYFC-50 MO 430	2330 WKYH-57 KY 440	WOWK-13 WV 420
Kansas City	WKPC-15 KY 330	WPGH-53 PA 430
1845 KCBJ-17 MO 340	29 0900 CBLFT9-68 OH 290	1630 WKET-48 OH 300
1930 KCPT-19 MO 430	W63AH-63 OH 250	WPCB-42 OH 370
Kansas City	0930 WKYH-57 KY 440	W63AH-63 OH 250
28 0545 WHAS-11 KY 330	WKYT-27 KY 360	1815 WKON-52 KY 330
WIKY-32 KY 330	WTVQ-62 KY 360	2100 WKBN-27 OH 380
WKRC-12 OH 300	0955 WBTI-64 OH 300	WTVY-33 OH 380
WKIX-19 KY 300	Cincinnati	WVIZ-25 OH 330
0600 WDRB-41 KY 330	1030 W17AA-17 OH 230	WUAB-43 OH 330
0700 WOSU-34 OH 320	Celina	WCVN-54 KY 310
WFBP-42 OH 370	1515 W47AB-47 OH 310	31 1430 WFBP-42 OH 370
0720 WMUL-33 WV 420	WOSU-34 OH 320	WMUL-33 WV 420
1630 WCET-48 OH 300	WPBO-42 OH 370	WKIX-19 KY 300
WKON-52 KY 330	WNBO-45 OH 360	WCET-48 OH 300

Donald Ruland cont'

December

31 Tr 1530	CBLFT-25 ON 430
	CICA-19 ON 430
	CFMT-47 ON 430
	Toronto
	WJET-24 PA 400
	WQLN-54 PA 400
	CBLFT1-76 ON 400
	CITY-79 ON 430
1545	WTVY-29 NY 460
1615	CICO-28 ON 400
	WPGH-53 PA 430
1630	WKXI-21 NY 520
1730	WTVY-33 OH 380
1800	CBLFT2-40 ON 340
	WNED-45 OH 360
	WNED-17 NY 460
1900	WCNY-24 NY 590

January

6 Tr 1300	KPRC-2 TX T
	KIII-3 TX T
1700	WMDU-3 FL 1070
	WTNS-2 FL T
1730	WTVY-4 AL 800
	Dothan
1800	KATC-3 LA 900
15 Tr 1900	WJAN-17 OH 360
	WAKR-23 OH 340
	WMAO-49 OH 340
	WVIZ-25 OH 330
	WUAB-43 OH 330
	WTVY-33 OH 380
	WDRB-41 KY 330
	WENJ-68 KY 330
	WUOC-44 OH 370
	WNED-45 OH 360
	WKLB-46 KY 360

15 Tr 1980	W47AB-47 OH 310
	WPGH-53 PA 430
	W63AH-63 OH 230
2080	WKPT-19 TN 510
	WKYH-57 KY 440
	WVIZ-47 VA 480
2100	WTVY-21 OH 380
	WKIN-27 OH 380
2110	WPTT-22 PA 430
	Pittsburgh
18	0540 KPLR-11 MO 300
	0550 WHO-13 IA 310
19	0800 WLAX-18 KY 360
	WKYT-27 KY 360
	WTVQ-62 KY 360
	WKIX-19 KY 300
	WCET-48 OH 300
	WNED-57 KY 440
	W63AH-63 OH 230

"Log at 483, 8 new."

Gary A. Olsen 1195 S. Wilson Dr. Lake Forest, IL 60045

"After 4 years I came back, back to TV DXing! Late September marked the end of my long hiatus from the dials when...with the help of Morris Goldman...I finished my new installation. Since last winter I have been planning, buying components, gathering bits and pieces, and slowly putting together a new setup. The faithful heights tower and 7' dish had been sitting in my Lake Forest backyard since we moved here in December of 1976. I added to the tower and developed a whole new ground-up system with all 75 ohm RG-6 cable (type Belden 9283). The dish with CHAU-B pre-amp and a Radio Shack V-185 ch 2-13 antenna now are up at 50' above the ground. I missed the September time because I was completing most of the interior part of the system--building custom racks to house my custom panels and wiring the various patching networks. Now blended into the internal set-up are complete 75 ohm panels Channel Master high and low band traps, VHF and UHF splitters, Conrac AV-82E all channel tuner and Sony CVM-1225 Color receiver/monitor. A Heathkit UHF detent tuner is wired in to update the AV-82E from its inaccurate continuous tuner. Also built-in is the "Dave Janowick-built" lo and high band amplifier which really helps of VHF. Unfortunately the 24 volt relay (to switch in and out from the CHAU-B) failed and stuck in the nonamplified position. I had to climb the tower in chilly October winds to undo some of my fine workmanship and reverse the connections to bypass the relay. But finally everything is done--- for phase one of course (I'd time your phase 1 for my phase 3, hi, ed.) There's always bigger and better plans for phase 2. The system got a nice break-in during the surprisingly mild late December when I chanced to take a look at the bands to see why I kept getting CCI on the Chicago locals. Joy of joys! DX was in and the bug bit again. Confirmed loggings:

12/28 evening All Detroit U's, many Indiana, Ohio, Michigan, & Kentucky U's, W67AC-Darlington, Wisc. (125 miles). 75-French language movie-no ID, 68 WKIN Louisville, 52-WKON Owenton (300 miles), 53 WKGB Bowling Green (340 miles), WBNH-55 Springfield, Ill. (180 miles), WTVQ-62 Lexington (325 miles), 30 KDNL St. Louis (300 miles).

12/29 morning 64 WBTI Cincinnati (280 miles)-new station heralding its newness on air w/ special slide. 63 W63AH Maplewood, Oh ID as WPTO/WPTD. 66 -ID as CBLFT-25--not sure which station this is. 14 WPTO Oxford, 16 WPTD Dayton, 25 WVIZ Cleveland, clear (340 miles), 43-WUAB Cleveland, clear (340 miles).

12/30 morning WKYH-7, WKIN-7, WUAB-43 OH, WJIN-6 MI, WTVG-13 OH (unfamiliar call)(new calls of WSPD Toledo, ed.)

December 31 was a quiet evening at home for New Years Eve. The dial was hot when I began tuning at 6:20 however. Highlights were:

6:30 PM CBLFT2-40 London, OH, ID as CBLFT-25, obnoxious ch.20 must have been WKON-20 pay TV.

7:30 PM CICO-18, CICA-19 and CICO-24 all carrying same program.

8:00 PM CBLFT-25 Toronto, channel 79 English speaking, most likely was CITY but I got no ID. WTVY-47 ID-apparently CMT-47. Ch. 76 & 40 running dubbed Jan & Dean movie was CBLFT2-40 and CBLFT1-76 Kitchener.

9:00 PM CKOO3 Sarnia IDed as CKOO on ch 42 after the "Free" hockey game (looked like WKON was running the same game for pay-tv) (They were, ed.)

10:00 PM The evening trailed off to WQLN-54 Erie (420 miles) and WPGH-53 Pittsburgh as punk weather began to roll in.

Probably the most overwhelming thing to me--having been off the bands for 4 years--was the number of UHF stations, especially new Canadians, now crowding the dial. Seems like just yesterday that 200 mile UHF was something to crow about; you could dial across the whole UHF band and see only a couple of blips. Ah, but we're all much older now. Hope I'll be reporting again soon now that I'm back in the clan!" (Welcome back, ed.)

Chris Patrinellis 2829 White Plains Ct. Springfield, IL 62704 (CMT/CST)  
(Forwarded by Father John, ed.)

May	September	9 Tr 1633 KOMU-8 MO
11 Es 2000 KVCN-2 CO	1 Tr 0035 WOC-6 IA 140	December
August	0036 WGM-10 IL 90	28 Tr 0130 KTVO-3 MO
30 Tr 2302 WREX-13 IL 175	0057 WTHI-10 IN 125	0253 KCCI-8 IA
31 0100 KWWL-7 IA	0100 WQAD-8 IL 130	0325 WMT-2 IA
0257 KCRG-9 IA	0235 WISH-8 IN 150	1305 WQRF-39 IL
	2300 WVC-35 MI	29 0100 WISH-8 IN
		0140 WRTV-6 IN

"40' tower, Winegard ant. Model 4  
N/A AC 8950 AMP. C.M. rotor, 19" black  
& white RCA. Note: due to ice storm most elements are broken off."

Robert S. Ross VE3JFC Box 4373, Stn. C London, ON N5W 5J2 (EST)

January	February	6 Tr 0707 WKBD-50 MI
15 Tr 0058 WPBN-7 MI	5 Tr 0622 CHCH-11 ON	0709 CKCO-42 ON
0105 WJHT-12 MI	0600 WJET-24 PA	0711 WXON-20 MI

Mickey Hogan 6th Trail along, Jungle Route 4, Manaus, Brazil 64721

Mickey is still in Brazil hunting llamas. Wait, something is coming in on the Hogan detector. Its him, let's listen: "HELP!!!! I'M LOST." Well there you have it, Mickey is lost in Brazil. If there any WFFDA members in the area would you search the area? Also, any members who have nothing to do for a few weeks may wish to head to the Amazon to look for our wandering Board member. When I get finished typing this I'm off on the search.

Rich Turcany 7 Cayer Circle Shelton, CT 06484 (EST)

11/4 0925 ch. R1  
11/12 0900 ch. R1, 0930 ORF-E2a Jauerling, Austria (vb 49.75 MHz), BBC1-B2 Oxford (48.295 audio), 1015 BBC1-B2 Swingate (48.285 audio), 1120 ch. E2 video buzz believed to be Nigeria.

11/17 0900 ch. R1  
11/18 0840 ch. R1, RTE-1A Sligo, Ireland (41.50 audio), RTE-1A ? Ireland (45.77 video buzz), RTE-1A (45.75 vb)

11/23 1140 BBC1-B3 Kirk o'Shotts (53.23 audio), heard U/WCBS-2 using an old U.S. set.  
12/8 1020 RTE-1A Gort, Ireland (53.75 video), 625 line video seen U/WCBS-2 with vert. hold adjust. Had good quality video in, a sports program with boxing match and interview was aired, 1045 BBC1-B3 Nowridge (53.23 audio), causing 20 kHz CCI to Kirk o'Shotts when viewed on U.S. set (audios are AM modulated).

12/9 0945 RTE-1B, BBC1-B3  
12/12 1238 BRT-E2 Aalter, Belgium (48.24 vb-positive video modulation).  
12/15 0800 WSNL-67 resumed regular broadcasting with old John Wayne flick. 0900 R1 video buzz strong, with Hungary, Czechoslovakia, and Poland offsets logged. Also logged was a strong buzz on 49.76 MHz (which sounds close to U.S.), likely Kiev, USSR. 1000 RTE-1B Gort.

12/16 0945 ch. R1, 1015 RTE-1B seen W/ads, one looked like a wine commercial (product name unreadable due to ghosting). 1030 Wavy-like lines seen on RTE-1B (not offset CCI), believed to be FM modulated audio from Spain.

12/18 0700 WNUJ-47 Newark, NJ testing from World Trade Center, signal 4555.

(Now using a foreign standard TV).

1/6 1015 48.265 West German vb strong on scanner, but causing just a weak picture on my set. 1245 48.247.26 Norwegian video?

"This was great. Even though the best F2 conditions occurred just weeks before I received my foreign set (a Unisonic XL-990), at least I was still able to view F2 video from Ireland. I've made some interesting loggings in between, such as Austria ch. E2a, BBC1-B3, ch. E2 audio, and USSR video buzz. But as of this writing (2/18), nothing's been in except BBC1-B1 audio/video and TFI audio. Hope there's one last chance for E2 video in the next month. As for the foreign TV, it has a coverage of 45.75-230 MHz, and can be converted to 625 line scanning with the flick of a switch. It will receive American TV I.F. at 45.75, but it comes in weak. The 1/6 F2 reception was probably the best I could receive on the set, but I wished that the F2 conditions could have improved in time. One sas note: on 1/30 WSNL-67 on Long Island was damaged in a fire which began in a transformer. There was great damage to the studio, although the equipment was safely moved out. This comes only one month after the station returned to the air for the first time in 4 1/2 years. The station was under program test authority, which meant that they were on only four hours a day. The station had been airing old movies and a local newscast, but was now into the process of broadcasting Wometco Home Theatre (WHT) over-the-air pay TV service to Long Island and here in Fairfield County (I plan to subscribe as I can use the decoder box to DX other pay-TV stations via tropo, hi.). It is not known when the station will return to the air, but they say they will rebuild. 73's."

Wayne M. Thompson Rte. 4, Box 156 Silver Springs, FL 32688 1-(904)-625-3048 (WMT/EST)

October	November	6 Es 1605 KFDX-3 TX 1025
27 F2 0950 BBC1-B1 GB 5575	14 Es 0518 WHSV-3 VA 690	E700 KBNW-3 NH 130C
Crystal Palace	Harrisonburg	1710 KANR-4 TX 1240
41.5 MHz	0519 KTN-3 PA 865	Amarillo
28 0900 TFI-F2 France	December	1716 KTVY-4 OK 1010
Troyes	3 Es 0534 WGR-2 NY 1000	Oklahoma City
41.25 MHz	12 Tr 0530 WWAY-3 NC 440	19 Tr 0934 WCVB-41 CA 280
"In almost every	14 0247 WCTV-6 FL 270	0949 WAKB-46 GA 360
Sat. & Sun. morn	0533 WCKT-7 FL 270	26 0700 W33AA-33 FL 260
til end of Jan."	January	Pt. Lauderdale
	6 Es 0600 KTNW-2 OK 955	XLTR WCIX-6
	Tulsa	

Roger Kramets 3406 W. Pierce Chicago, IL 60651 (312) 235-5188 (CST)

January	18 Tr 1005 WVUT-22 IN	19 Tr 0142 WKLY-32 KY 277
15 Tr 1616 WPTT-22 PA 418	1034 WUSI-16 IL 219	0343 WKRP-22 OH 237
1753 WOSU-34 OH 280	2230 WUSI-16 IL 219	0524 WKBC-12 OH 250
		WBAS-11 KY 277

"Not really much DX to report since late Dec. The 1/15 opening was the second time in two weeks that WPTT-22 was supering through WSBT, 88 miles & in the same direction from here. This was logged on a make shift antenna set-up. Two days before, former WFFDAer Karl Forth & myself took down my old set-up (in anticipation of my future move). When tropo ex became apparent, I quick threw up a 4 bay at 15' above the roof (about 35-40' above the ground). This proved to not have much gain, so I put the U-100 yagi back up & had about 4 times the gain. The UHF antenna is still up, but the VHF & rotor are packed in their boxes. Still no idea on when I'll be moving, but I would guess the earliest will be in late April or early May, since the people buying the house haven't yet made an offer. For those of you who have their black & white TV pictures processed by a commercial lab and are unsatisfied, take notice. I am announcing my photo lab opening. I will process only TV photos & only black & white. I have an enlarger that can make prints up to 16 X 20. My charges may be slightly higher than a commercial lab, due to the purchase of supplies in smaller quantities and in the retail market. Any profits I make will help offset my costs (including the printing of color negatives in black & white for appearance in Photo News). Hopefully my experience in printing poor quality negatives will be of assistance to some of you. My anticipated cost for a 12 exposure roll of film is about \$2.00, \$3.25 for a 36 roll 35 mm roll, & \$2.75 for 20 exposures & about 12¢ for a contact print or 3 1/2 X 5 1/2.. 73's."

The official WFFDA Member Opinion Poll:

1. Is the Eastern TV DX Editor wierd? A. Yes B. No C. I'm to wierd to determine  
2. Is Mike Hogan wierd? A. Yes B. Yes C. Probably

Vote as many times as you like. You can even vote if, when your VUD arrives, you are in a state generally thought of as being deceased. Remember, I'm from Chicago.

George S. Callacher 701 N. Ogden Pl. Ossian, IN 46777 (EST)

September	December	15 Tr 1043 WFLD-32 IL
16 Tr 2220 WLWT-5 OH	4 Tr 2130 WDNH-24 OH	1059 WBIT-34 IN
30 2010 WILX-10 MI	2131 WGN-9 IL	1100 WWSN-44 IL
2200 WOTV-8 MI	2320 WTVG-13 OH	1130 WGTU-29 MI
October	28 1842 WWSN-25 IL	1151 CKOO-13 OH
1 Tr 2249 WRTV-6 IN	1730 WVC-35 MI	1600 WLL-12 IL
17 0624 WHIO-7 OH	1300 WJRT-12 MI	1602 WHAS-11 KY
18 0516 WJIM-6 MI	1452 WPTD-16 OH	1700 WKYT-27 KY
2035 WBGU-57 OH	1700 WCTE-30 OH	1741 WCIU-26 IL
2041 WLIO-35 OH	1703 WKAR-23 MI	1756 WISM-12 WI
2044 WSJV-28 IN	1705 WKBD-50 MI	1829 WBSN-10 OH
2045 WDNH-24 OH	30 0100 WKIX-19 KY	1900 WKYC-3 OH
WSBT-22 IN	0130 WAND-17 IL	1900 WTRF-7 WV
2046 WNDU-16 IN	0134 WMMB-40 IN	1911 WSTV-9 OH
2059 WLFI-18 IN	January	1918 WLIC-11 PA
2100 WUHQ-41 MI	8 Tr 1816 WTHI-10 IN	1946 WGPC-38 IL
2130 WKZO-3 MI	1830 WTHR-13 IN	2400 WSWP-9 WV
30 0600 WTOL-11 OH	0013 WDTN-2 OH	2117 WTVQ-62 KY
0602 WTV-2 IN	0021 WKRC-12 OH	18 1650 KCEG-9 IA
2034 CBET-9 IN	0024 WCPO-9 OH	1720 WGM-10 IL
2044 WKYZ-7 MI	14 1630 WMAQ-5 IL	1730 WAVE-3 KY
2100 WTVN-6 OH	1631 WIS-7 IL	
November	1638 WDIV-4 MI	
7 Tr 1859 WDTN-2 OH	1707 WPBN-7 MI	
16 2330 WTTV-4 IN	1711 WCIA-3 IL	
20 2000 WWTW-9 MI	2128 WTTW-11 IL	

"Well here it is, my first DX report. Before I go any further, I'd like to thank Robert Zent in Huntington,

George S. Callacher cont'

Indiana for helping me select a DX antenna. His experience with them was very helpful to me in selecting an antenna. Both of us keep in touch whenever an E-skip or tropo opening comes around this area. Again thanks Bob. From 8-11-79 until around 1-8-80 I was using a 6 element R.S. FM only antenna on my television. Suprisingly enough the results weren't too shabby. But the antenna wasn't good enough for DXing, so on 1-8-80 in 16 degree weather I put up a Radio Shack V-150 VHF-FM twenty element antenna, 20' high in the air. Other pieces of my DX equipment consists of a Marantz 2500 receiver and a Quasar 7" B&W television. Hope to buy a Sony 12" color set and a Betamax video system soon, or else move out cause I have no room for anything else. My room is only 10' X 12', and everything is so crowded together. At any rate I hope to get an FM DX report in before the end of March. 73's to everyone." (George says he uses a 7 1/4" halo indoor antenna for UHF. George, note the two call letter corrections I made in your report. Your channel 9 Cadillac, Michigan should be WTVU. WWUP is on channel 10 in Sault Ste. Marie, MI & rebroadcasts WTVU. WTVG-13 Toledo is WSPD's new calls, they changed on 10/1/79, ed.)

Have you ever wondered how much you know about llamas? Well, now you can find out, as we're having a quiz. There is only one answer to each question.

1. Llamas are: A. Bigger than a bread box B. Larger than frogs C. About the same size as sheep.

2. Llamas are: A. Very very dangerous B. Tame and placid C. Boisterous

3. Which of the two is more dangerous? 1. Killer sheep 2. Llamas

4. Llamas can: A. shoot guns B. Fly military aircraft C. Swim

There are three first prizes & 3 second prizes. In the event of a tie, the winners will be drawn by lot (of the vacant variety). The prizes are of the unique type.

#### Guidelines for reporting to ETVDX

1. Try to mimic the format I use as close as possible.
2. Don't report program details in the logging section.
3. Report only that which is truly DX. If you get something 10-15 times a month its not DX.
4. Please refrain from putting details other than station listings in the loggings section use the comments part of your report to discuss anything unusual about the logging (this will save space & prevent mistakes in my counting the number of lines each report takes).
5. Be as brief as possible in your comments.
6. There is no guideline 6.
7. Same as above, only this is guideline 7.
8. Wierd contributions always welcome.
9. There is a guideline 9, but its a secret.

I am holding lengthy reports from Paul Gaines & John Barber until next month so that I get this to Buffalo on time. . htnon txen uoy esS (read backwards, ed.) 25 X 4 - 30 + 3's.

#### INTERNATIONAL NOTES (continued from page 5)

From the British magazine "TELEVISION" comes some information in Roger Bunney's column.

- \*\* BBC-1 (B2) received in Perth, Australia.
- \*\* Australian TV (A8) 46.25 MHz V/ 51.75 S received in Britain.
- \*\* South Africans report Portugal RTP (B2), an R1 with Chinese characters.
- \*\* Russian satellite is broadcasting TV direct on 714 MHz (around U.S. ch 54).

I have ordered a list of TV/radio stations (private) in Italy and will print that as soon as I get it.

THANKS to JOHN COMBS, GLENN JACOBS, JOHN ZONDLO and everyone else for their support.

## VHF UTILITY DX

### FEBRUARY 1980

R.D. Stein, 456 Barrymore Place, North Brunswick, NJ 08902 Bearcat 250 and Touch on Hustler Discone antennas; GMT

11-14:

1411 41.62 Spanish  
1505 39.18 Venezuela (Parques Nacionales)

1615 KOA216 39.82 Great Falls, MT-cp  
1755 KMA628 39.14 L.A., CA-cp  
2054 KOB568 39.82 Lake Co., MT

11-15:

1325 46.46 Puerto Ordaz, Ven.  
1342 35.88 Bayamon, PR  
1406 39.18 Ven., 1440 44.04 BWI Eng.

11-16:

1312 44.13 BWI Eng., 1315 44.71 Sp.  
1755 KOA216  
1756 40.39 Guadalajara, Mexico  
1827 KOA284 39.82

11-20:

1459 44.71 Sp.  
1505 42.75 Rus., BWI Eng., Sp., Ital.  
2145 34.85, 36.51 White Sands, NM (missile base)

2146 44.1 Eng.

2153 KOD276 39.82 Hardin, MT-cp

11-23:

1743 45.70 KMJ521 San Diego Co.-cp

11-28:

1420 36.23 Rus., 1425 36.275 Rus.

11-29:

1420 40.14 Rus. & Port.

1424 48.30 Spanish

1449 KVC658 35.88 Bayamon, PR

1520 37.2 BWI Eng.

2210 KOA999 39.82 Kalispell, MT-p

2252 WBC418 39.86 Sierra Co, CA

11-30:

1311 37.20 Sp., 36.90 BWI Eng.

12-1:

1420 46.07 BWI Eng.

1707 41.62 Span., 1718 40.14 Port.

other Russian frequencies:

33.90, 36.23, 36.275, 42.750

11-3:

1153 45.62 Radio Mia, Panama

12-11:

1535 49.75 videos, 48.25 videos, 45 BBC videos  
41.465, 41.48, 41.50, 41.52, 41.535 BBC audios  
41.23, 41.25, 41.27 French audio

12-12:

1444 48.25 BBC audio

12-12:

1444 48.25 BBC audio

Dec 10.7-cm solar flux average was down to 205, and the smoothed avg (Jun 1979) rose to 192. It wont be known until mid-year just when the Cycle peak was. If fluxes dont get into the 250+ range much in the next few months, November may have been it.

Pat Dyer  
5315 Silvertip Drive  
San Antonio, TX 78228  
Deadline: 5th of month

12-2:

1520 44.71 Sp., 1904 40.05 Mexico?  
1905 KOG907 39.82 Butte, MT-cp  
2045 37.8 BWI Eng.

2100 46.07 French  
2104 - 39.82 Virginia City, MT

12-4:

1535 37.8 Italian  
1543 37.46 Spanish  
1544 KKA617 37.62 Mathis, TX  
1553 37.7 Port.

12-5:

1336 37.025 Rus. Port.  
1344 37.10 BWI Eng., 1349 37.44

12-6:

1405 37.19 Sp.  
1424 37.025 Rus.  
1637 45.7 military  
2232 KOF476 Phillipsburg, MT-cp 39.82  
2234 KOA722 Missoula " " "  
2236 KOG381 Virginia City " " "

12-9:

1428 40.14 BWI Eng  
1511 36.275 Rus., 1520 40.05 Sp.

BWI = British West Indian  
A lot of UNID Spanish etc under the day's MUF were cut.  
There is a Latin American repeater on 36.9 that has a 33.9 input and thus puts out horrendous amounts of US east coast fire departments!

With the help of some recent immigrants (Boris & Yelena) some of the Russian tapes were deciphered:  
40.14 likely White Russia  
37.025-Ministry of Food Production (likely Moscow)  
-Taxi cabs near Minsk  
-military, Poland border near Vistula River

D. Wilson, 237-B E. Summit St., Kent, OH 44240 Bearcat 210, GMT

11-3:

1153 45.62 Radio Mia, Panama

12-11:

1535 49.75 videos, 48.25 videos, 45 BBC videos  
41.465, 41.48, 41.50, 41.52, 41.535 BBC audios  
41.23, 41.25, 41.27 French audio

12-12:

1444 48.25 BBC audio



## VHF UTILITY DX

FEBRUARY 1980

G. DuBois, 10048 NE Campaign, Portland, OR 97220 Bearcat 250, A/S Mon 8  
long wire, PST

11-10:  
1430-1503 41.5 BBC audio(weak)  
11-22:  
0830-1010 41.5 BBC (very strong)  
0930-1130 41.25 France (" " )  
12-13:  
1000 41.5/41.25 (very strong)  
1530 40.00 "Kotzebue Radio" AK  
(US Army National Guard)  
12-15/16: morning 41.5/41.25  
12-17:  
0740 33.44 Quebec  
1730 37.6 S.Korea (US Army ATC)  
1740 37.78 Russian ?  
12-18:  
1710 33.35 Russian

12-19:  
1600 42.65 Russian  
1640 38.65 Taejon, S.Korea  
(US Army RWI net)  
1730-1815 Es to L.A., CA 35-42 MHz  
12-23:  
0938 36.6 Montreal, PQ-p  
-----  
almost daily:  
32.6 Seoul (Korean Br.Sys.)  
(cx music 0110-0200z)  
34.11 Elmendorf AFB, AK (flightline  
maint.)  
1500-1900 S.Korea (US Army)  
33.45, 33.55, 33.65  
37.38, 38.1 ROK military

also, 10-30: to 1800 31.04 2nd harmonic of R.Peking

My loggings. Bearcat 210, 11-m ground plane at 14', Hallicrafters SX-62  
with 30' long wire; daily peak MUF's noted (all F2 mode, \* Es), new,  
GMT (see next section for 49-50+ events)

12-6:  
1435 41.5 BBC TV audio; 43.7 se  
1440 45 BBC TV videos  
1505 48.25 faint beats  
1510 48.25 BBC audio  
41.25 French TV audio  
1525 48.25 TV videos  
1600 43's to US ne  
1642 KCI295 43.22 Manchester, NH-tp  
1757 KOA418 42.88 Astoria, OR-sp  
2152 KOB238 37.58 Seattle, WA-light  
2212 KOP303 35.62 Langley, WA-mp  
2245 40.62 Pacific ?  
2315 hi-36 Russian  
12-7:  
1412 KCC405 37.54 Bangor, ME-he  
1415 37.35 se  
1435 45 videos, 41.5 BBC  
1515 48 videos, 1527 48 audios  
2210 40.62 Pacific ?  
12-8:  
1407 41.5 BBC, 1440 45 videos  
1445 38 Spanish  
1459 41.25 Fr, faint 48's  
1507 48 videos, 43 US ne  
1530 48 audios  
2032 35.26 Portland, OR-mp  
2039 KUA288 35.22 Portland, OR-tp  
2040 KOP303 35.46; 40.62 Pac.?

12-10:  
1519 48 audios, 1640 43-44 US ne  
2225 40.62 Pac. ?  
12-11: (1315, 43.18 se ?)  
1403 KCB364 33.70 Hubbardstown, MA-f  
KCE537 " Sterling, " "  
KCD244 " Falmouth, " "  
1404 KCD658 " Westminster, " "  
1405 KCF574 " Mashpee, " "  
KCD594 " Chatham, " "  
KCD845 " Brewster, " "  
KCD574 " Eastham, " "  
1406 41.5 BBC, 1432 41.25 France  
1443 45 faint beats, 1450 48 videos  
1507 48 audios, 1540 43's US ne  
1736 KOA824 39.82 Big Mountain, MT-p  
2055 40.62 Pacific ?  
12-12:  
1329 KCD244  
1330 KCD582 33.70 Harvard, MA-f  
1349 37.35 se?; KCC405  
1350 41.25 Fr., 1405 45 videos  
1413 48 videos, 1429 41.5 BBC  
1433 48 audios, 1500 43+ US ne  
2009 Portland 35.26, 2010 KUA288  
2040 40.62 Pac.?

12-13:  
1359 KCA346 37.54 Ellsworth, ME-he  
1403 43.7 Spanish, KCD244  
1404 KCF264 33.70 Truro, MA-f  
KCD271 " Harwich, ""  
KCE288 " W. Tisbury, "-cf  
KCF358 " Centerville, "-f  
KCD497 " Buzzards Bay, ""  
1405 KCD500 " Wellfleet, " "  
KCF574 " "  
KCB760 " Osterville, ""  
KCB781 " Barnstable, "-cf  
KCD845 " "  
1406 KCD574

## VHF UTILITY DX

FEBRUARY 1980

(Dyer, cont.)

12-13:  
1406 KCD454 33.70 Hyannis, MA-fdi  
1413 45 videos, 1425 41.5 BBC  
1440 48 videos, 1500 44+ US ne  
1520 48 audios, 1550 46.76 Russian  
2035 40.62 Pacific ?  
12-14:  
1334 43.7 Spanish  
1358 KCD353 33.70 Lancaster, MA-f  
1400 KCC482 35.22 Concord, NH-yp  
1403 KCI299 35.22 New Haven, CT-tp  
1406 KCB781, 1408 41.5 BBC  
1433 37.62 US ne, 1435 45 videos  
1510 48.25 beats, 1513 low-43 Can.  
1615 41.27 France, 35.26 Seattle-mp  
1620 48 videos, 1625 41.25/.23 Fr  
1910 40.62 Pac.?  
12-15:  
1315 43.7 Spanish, 1410 41.5 BBC  
1410 41.25 etc France  
1422 W.-Barre, 1425 37.96 US ne  
1432 48 videos, 1447 45 videos  
1455 39 US ?, 1540 low-40 Russian  
2015 40.62 Pac.?, 2130 37.06 Rus.  
12-16:  
1412 KCF337 33.70 Boylston, MA-f  
KCB781, KCD574  
KCH585 33.70 Rutland, " "  
1413 KCH239 " W. Boylston, ""  
KAV492 " Winchendon, ""  
KCD353  
1444 KEA860 35.22 NY, NY-tp  
1446 46.74 Peru ?  
1500 KCH954 33.70 N. Brandford, CT-f  
1502 41.5 BBC, 1505 41.23/.25 Fr  
1540 37's US ne, 1550 45 videos  
1810 KUA288, 2100 40.62 Pac.?  
12-17:  
0213 35.38 L.A., CA-mp \*  
0226 35.46 " " " "  
1216 35.58 OK City, OK-yp(ms)  
1320 KIY508 35.22 Orlando, FL-tp\*  
1400 KDN599 33.70 Paxton, MA-f  
KCN575 " E. Princeton, ""  
1401 KCH585, 1402 KAV492  
1403 KCD353, 1404 KCD244  
1404 KCD246 33.70 S. Yarmouth, MA-f  
KCB360 " Leominster, " "  
KCD492 " Dennis Port, " "  
1405 KCD498 " Sandwich, " "  
KCD556 " Orleans, " "  
KCB760, KCD454  
1415 KCC405, 1430 45.1 Spanish  
1432 41.5 BBC, 1500 45 videos  
1517 41.25 France, 1520 48.25 beats  
1532 low-43 US ne  
1535 35.66 NY, NY-mp  
2000 40.62 Pac.?, 2035 W.-Barre  
12-18:  
1345 37.35 se  
1347 KCB781, 1437 KCA346  
1450 41.5 BBC, 1510 41.25 France  
1520 45 videos, 1525 39.82 US ne

12-18:  
1535 48.25 beats, 1543 41.64 Can (Fr)  
1920 40.62 Pacific ?  
12-19:  
1445 43.7 se, 1503 41.5 BBC  
1507 KCC405, 1540 45 videos  
1615 40+ Can (Fr), 1755 KCI299  
2035 40.62 Pac.?  
12-20:  
1415 45.13 Sp., 1419 KCC405  
1440 41.5 BBC, 1520 40-41 Can (Fr)  
1530 45 videos, 1837 KCA305  
2100 40.62 Pac.?, 2235 36.6 mpx  
2315 37.06 Rus., 2346 KOP303 35.46  
12-21:  
0130 KAA57 39.50 Olney, IL-p \*  
0133 KSB269 " Watseka, "-cp \*  
1510 41.5 BBC, 1513 45 videos  
1540 41.23/.25/.27 France  
1545 48 audios, 1600 low-43 US ne  
12-22:  
1325 46.94 Spanish  
1355 KCB342 33.70 Barre, MA-f  
KCB778 " Berlin, " "  
KBA887 " Bolton, " "  
KCF337 " Clinton, ""  
KCH246 " Gardner, ""  
KCA395 " "  
KCD582  
1356 KCC705 " Holden, " "  
KCB364, KCD353, KCB360, KDN599  
KCN575, KCH585,  
1357 KCE537, KCH239, KCD658, KAV492  
1400 41.5 BBC, 1418 KCC482  
1422 W.-Barre, 1455 48.25 beats  
1502 45 videos, 1525 48 videos  
1949 Portland 35.26  
2102 KCI295, 2106 42.34 MA  
2123 KRS665 43.22 Agamenticus, ME-tp  
2136 low-45 US ne ?  
2149 KCA887 39.54 Attleboro, MA-p  
2225 38.02 Alberta (mobiles)  
2235 35.46 Glide, OR-mp  
KOP303 35.62  
2236 Seattle 35.26, 2255 KOB238  
2310 45.25 New Zealand video ?  
12-23:  
1401 KCD244, KCD246, KCF264, KCD271  
KCE288, KCD498, KCD556, KCF574  
KCD594  
1402 KCB760, KCB781, KCD845, KCD574  
KCD454  
1423 KCD575 33.70 Cheshire, CT-f  
1612 41.5 BBC, 1824 KCD626  
12-24:  
1427 46.94 Spanish, 1446 35.66 NYC  
1502 KEA860, 1528 41.25 France  
1528 41.5 BBC, 1535 KCC405  
1543 45 videos  
1759 KCA695 33.78 Manchester, NH-f  
KEE720 " Millburn, NJ- " "  
1800 KVT766 " Dover, DE-cf  
1802 KCH954, 1810 39's US ne

## VHF UTILITY DX

(Dyer, cont.)

12-24:  
2354 KOP303 35.46  
12-25:  
1420 40.86 Spanish, 1443 43.18 ?  
1532 KCD306 33.70 York, ME-vf  
1547 KCG342, 1600 KCH954  
1631 KDA383 33.90 Milford, NH-f  
1635 41.25 Fr, 1640 41.5 BBC  
1649 KEA860, 1728 KCI299 /tp  
1730 KGC223 35.22 Philadelphia, PA-  
KCB890 " Fall River, MA-tp  
1738 KCG651 33.70 Derby, CT-f  
2021 KCA695  
2036 KOH894 33.70 Winslow, WA-cf  
2129 KBZ283 33.90 Orford, NH-rf  
KDC288 " Hollis, " -f  
2130 KDA381 " Wilton, " "  
12-26:  
1512 41.5 BBC, 40.86 Spanish  
1536 KCA305  
1924 KCE869 33.70 Prospect, CT-vf  
1929 KOH894, 2020 KBA887  
2027 KCC405, 2028 KCA346  
2030 KCC957 33.70 Bethel, CT-f  
2056 KFN716 " Arundel, ME-"  
2059 KCF337, 2100 KCH954  
2216 KBZ283  
2228 KCB951 33.70 Wells Beach, ME-f  
2255 40.62 Pac.? 2325 37.13 Rus.  
12-27:  
1445 41.5 BBC, 41.23 France  
1455 41.25/.27 Fr  
1520 43.7 Spanish; KCC405  
1524 35.66 Wilmington, DE-mp  
1929 KRG767 33.90 Easton, MD-cf  
KDA383  
1541 KCA305, 1558 KDC288  
1559 KBZ283, KDA381  
12-28:  
1418 37.35 se, 1435 43.18 ?  
1440 KGF392 33.70 Pottstown, PA-f  
1540 41.23/.25 France  
1543 41.5 BBC, 1650 KCA305  
1714 KCC405 /tp\*  
1735 KIF651 35.58 Ft. Lauderdale, FL-  
1740 KUA288, 1745 Portland 35.26  
1746 Seattle 35.26, 1950 KCA346  
2005 40+ Canada (Fr)  
12-29:  
1350 44.71 ?, 1442 KCI299, KEA860  
1458 KCD353  
KCH677 33.70 Fitchburg, MA-cf  
1502 KCD658, 1755 39 US ne  
1845 39 US nw, 1855 41.64 Can. (Fr)  
1900 44+ Spanish  
12-30:  
0012 KLF527 35.22 Honolulu, HI-tp  
1350 KCC825 33.70 Kennebunk, ME-f  
1356 KBA887, KCA395  
1357 KCD582, KCC705, KCD353, KCB360  
KAX916 33.70 Lunenburg, MA-f  
KDN599, KCM575, KCH585, KCE537  
KRJ877 33.70 Templeton, MA-f  
KCH239, KCD658, KAV492, KCB778

## FEBRUARY 1980

12-30:  
1401 KCH677, KCB980  
1545 41.5 BBC, 1600 41.25 France  
1611 KCI299, KEA860  
12-31:  
1401 KCG342, KCB778, KBA887, KCF337  
KCH246  
1402 KCA395, KCD582, KCB364, KDN599  
KCM575, KCH585, KCE537, KCH239  
KAV492, 1433 KCC405  
1530 41.23/.25 France  
1548 W.-Barre, 1550 41.5 BBC  
2029 Portland 35.26, 2044 KCC825  
2058 KFN716  
2132 KCF460 33.70 Warren, CT-vf  
2140 KCF313 33.66 Andover, MA-f  
2146 KCA585 33.90 Plymouth, " "  
2147 KCL820 " W. Bridgewater, ""  
2151 KBF376 33.86 Waterboro, ME-f  
2200 KCC907 33.70 Blue Hill, " "  
2214 KOH894  
2245 KCF582 33.70 Thomaston, ME-f  
1-1:  
1455 KEA860; 41.25 France  
1520 41.5 BBC  
1521 KSN232 33.70 Lower Burrell, PA-vf  
1700 40's Can. (Fr); 1727 W.-Barre  
1736 KEC515 35.58 Albany, NY-tp  
1755 39's US ne, 1850 39's US nw  
2220 KGF392  
2225 KCH794 33.54 Wrantham, MA-f  
2235 45.26 New Zealand video ?  
2308 KDX459 33.54 Medway, MA-f  
2310 KVI522 33.82 Piscataway, NJ-f  
2312 KCD346 33.90 Tolland, CT-f  
KCD336 33.70 Lincolnville, ME-vf  
2313 KJP390 " W. Point, PA-vf  
2321 KUA288  
2325 KDK766 33.82 Avenel, NJ-f  
2328 KOB238, 2342 Seattle 35.26  
2342 KOP303 35.62, 2355 40.62 Pac.?  
1-2:  
0000 KCF314 33.66 Tyngsborough, MA-f  
0001 KCF367/366/368  
0002 KCF364 " " " "  
0005 KCD556 33.66  
0026 KOA748 33.90 Seattle, WA-f  
1445 43.7 Spanish; 1450 KCA305  
1505 41.25 France; KCA346  
1522 41.5 BBC; 1550 39's US ne  
1550 low-43 Canada  
2224 KCB999 33.78 Burlington, VT-f  
KCA695  
KDE245 33.54 Millis, MA-f  
40.62 Pacific ?  
2242 KCE457 33.86 Newtown, CT-f  
2244 KCL540 33.90 Halifax, MA-f  
2248 KCE537; 35.56 Russian  
2249 KCF944 33.54 Brattleboro, VT-f  
2235 KCE287 33.94 Rocky Hill, CT-f  
KCE869  
2258 KCY582 33.54 Franklin, MA-f  
KCD658

## VHF UTILITY DX

(Dyer, cont.)

1-2:  
2258 KED411 33.86 Cliffside Park, NJ-f  
2259 KCB778, KBA887  
2300 KCM857 33.78 Winchendon, MA-f  
2301 KCR901 33.98 Rochester, NH-f  
KCF311 33.66 Carlisle, MA-f  
2302 KCD471 33.70 Wells, ME-f  
KCD575  
2320 37.13 Russian  
1-3:  
1434 KCI299, 1445 KCA305  
1455 46.8 se; 1506 41.5 BBC  
1506 KCC405, 1510 45 videos  
1555 low-40 Canada (Fr)  
49-50+ F2 effects, Swan 250 with Ameco nuvistor preamplifier, 5-el  
Cushcraft horizontal Yagi at 23 feet with rotor  
12-6:  
1610 VO2AG Labrador City, Labrador  
1614 VGLJN St. Johns, Newfoundland  
1804 KH6IAA Hilo, HI  
12-7:  
1525 49.75 video ne  
1550 EI2W Dublin, Ireland  
12-8:  
1455 49.75 videos faint to 1520  
and over 50 MHz by 1615  
1540 EI2W, 1605 VO1DI Newf.  
12-9:  
1445 49.75 videos ne  
1455 EI2W, 1520 video over 50 MHz  
1520 VELASJ St. John, NB  
1620 WALDZJ ME; NM bs to ne  
1630 VELBPY Summerside, PEI  
1645 51.75 video (Ch B-2)  
W6 bs from ne  
1718 VO1GI Newfoundland  
1740-2100 all US call areas &  
Canada in on bs from nw  
1755 VE8BY Yellowknife, NWT  
1800 VY1AU Whitehorse, Yukon  
1826 VE7DTI Prince George, BC  
2000-2250 Alaskans (Fairbanks)  
12-10:  
1520 49.75 videos ne  
1542 EI2W, 1555 VO1JN  
1620 video over 50 MHz  
1630 VO1DI  
2035-2245 KL7NO Fairbanks, AK  
12-11:  
1420 49.75 video (ms assist)  
1512 EI2W to 1715  
1650 video over 50 MHz  
12-12:  
1350 49.75 video (ms assist)  
1510 video over 50 MHz  
12-13:  
1355 49.75 video (ms assist)  
1540 " " strong direct  
1600 "G6SIX" "London" cw  
video over 50 MHz  
1630 51.75 video  
1745 49.75 video f/out  
1-3:  
1720 W.-Barre  
2210 45.26 New Zealand video  
2355 37.82 Russian  
1-4:  
1430 43.7 se, 1555 41.5 BBC  
1603 KCA305, 1759 KCB781  
1800 KDC288, KBZ283, KDA383  
1801 KDA381, 1804 KCD575  
1835 KOB238, 2025 40.62 Pac.?  
2350 37.82 Russian  
1-5:  
1450 43.7 se, 1455 41.5 BBC  
1530 45 videos, 1600 39's US  
1813 KCD626  
12-14:  
1420-1525 49.75 video ne (w/ms)  
12-15:  
1405-1445 49.75 video ne (w/ms)  
12-16:  
1425-1510 49.75 video ne (w/ms)  
12-21:  
1520-1600 49.7 Spanish se  
12-22:  
2035 KH6IAA to 2100  
KH6NS Honolulu, HI  
KH6BZF Kaneohe, "  
12-23:  
1500 HCL1JX 50.037 Ecuador (cw bcn)  
1505 HCL1BI Quito, Ecuador to 1610  
12-29:  
1420-30 HCL1JX (operator)  
12-30:  
1525 HCL1JX (op.)  
1845-1920 KH6IAA  
1905 KH6HI Ewa Beach, HI  
12-31:  
1535 49.7 se  
1-1:  
1450-1525 49.65/49.7 se  
after mid-Dec 50-MHz F2 slowed down;  
11 Dec, 1750z EI2W heard VE7  
12 Dec, ZB2VHF (50.035) bcn into NV  
14 Dec, 1230-1430z 59.75 Bangor, ME  
Ch 2 audio into Cheltenham,  
Eng. & bits of 61.25 video  
16 Dec, TF3SG (Iceland) into MA  
21 Dec, Øz Brazil to HI  
22 Dec, Bolivia into US east  
Bermuda into HI & NS  
30 Dec, 2250z ZL4 into S. Calif.  
1 Jan, huge aurorae mixed with F2  
information such as this can be had  
from the 28.885 6-m info net  
Jan solar flux already over Dec  
levels -  
73, Pat WA5IYX

## FEBRUARY 1980

# VHF UTILITY DX

Pat Dyer  
5315 Silvertip Drive  
San Antonio, TX 78228  
Deadline: 5th of month

APRIL 1980

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 QSLed, GMT

3-3: 1726 KMH905 42.12 Bakersfield, CA-sp  
11-3: 1427 BBC-1 41.50 Crystal Palace, England (TV audio)  
1545 TF-1 41.25 France (TV audio)  
12-20: 1820 KOB651 39.82 Hamilton, MT-cp (100 watts, 70')  
KCA722 " Missoula, " "  
22: 1943 KCF344 " Plentywood, " (250w, 87')  
Car 4 " Medicine Lake, " (100w, whip)  
1950 KGN47 " Thompson Falls, ""  
23: 1918 KVN704 " Bozeman, " (120w)  
30: 1811 KOF936 42.58 Carson City, NV-sp (100w)  
31: 2101 KIB950 39.16 Fairfax, VA (county animal patrol; 800w)  
1-1: 2024 KGA693 42.94 Eugene, OR-sp  
2221 KGA766 39.82 Superior, MT-cp (100w, 400')  
2223 KGA216 " Great Falls, ""  
5: 1938 KND520 42.56 Santa Maria, CA-sp  
6: 1840 KSB235 42.56 Maryville, IL-sp (300w)  
1842 KXW825 " Litchfield, " (300w, 400'; remote at Beaver Dam State Park)

Martin J. Theil, 12 Princeton Dr. E., Holiday, FL 33589 (Feb 1-7)

KOA722 39.82 - 39.08 Santa Clara, CA-p  
KOB651 " - 39.14 Lennox  
KOG907 " - 39.02 W.Hollywood, " "  
KMA628 39.76 - 39.74 Malibu, " "  
KXW245 39.96 - 39.20 Carson - p  
- 42.44 Eureka, CA-p KXE734 39.76 East L.A., CA-p  
- 42.42 IN - 39.82 Temple, " "  
- 35.38 I.A., CA-mp - " Thompson Falls - p  
- 35.46 " " - 39.64 Lakewood, CA-p  
- 35.54 Int. Falls, MN - 39.44 Firestone - p  
- 39.94 San Dimas, CA-p - 39.42 Pico Rivera, CA-p

Martin would like to hear from those with experience with the Hustler Discone antenna as well as Bearcat 210/250 users.

50-MHz has been picking up again, but primarily it is now a north-south path being productive. In early March Japan received the ZB2VHF beacon (50.035) at 03-04z via long path! Feb 17 05z they also got ZS6LN beacon (50.050). Japan has also had several openings into Hawaii, New Zealand, Australia, and Brazil....Hawaii has been getting Brazil and most of the south Pacific (Cook Island, W.Samoa, Tahiti, New Hebrides, Papua New Guinea, Solomons, etc.)....southern Africa had some days with 46 MHz to N.America and regular Cyprus and ZB2 paths....ZS6PW beacon into Germany Mar 4 12z otherwise little else in Europe....Brazil has had its usual TE to northern S.America and the Caribbean as well as ZB2....Some ne US reports of the FY7 (French Guiana) beacon but most DX has been for the w and sw with Argentina into California a few days (and one night at 05z) along with Ecuador and Costa Rica; Feb 20 HCL to Seattle; Feb 29 brought 3-4 hours of ZL1/2 to CA, AZ....K3SXA/MM2 in the Caribbean found almost nitely TE south when below latitude 21 deg N.

Solar flux avg Feb just over 200, making Aug smoothed near 194. Though fluxes in Feb much like last year the north Atlantic and transcontinental MUF's not as good at all....an as yet unexplained result.

Some recent news items mention Cycle peak Apr-Jun period. Nice if it were. Swiss still have it going down & Boulder holding to last Nov.

## VHF UTILITY DX

APRIL 1980

Now, my loggings. Bearcat 210 with 11-m ground plane at 14', Hallicrafters SX-62 and SP-600-JX-10 with 30' wires at 12'; daily F2 MUF peaks noted (\* Es, bs-backscatter), new underlined, GMT used

2-3: 1517 KDA381 33.90 Wilton, NH-f  
1529 KBZ283 " Orford, " -rf  
1532 KCL540 " Halifax, MA-f  
1625 KCC785 33.70 Ogunquit, ME-f  
1627 KCA639 33.90 W.Wareham, MA-f  
1650 KCA585 33.70 Rutland, " "  
1657 KCH236 " Oxford, CT-vf  
1659 KDA383 33.90 Milford, NH-f  
1700 KCH954 33.70 N.Brandford, CT-f  
1711 KCB526 " Kennebunkport, ME-f  
1713 KCD306 " York, ME-vf  
1714 KCA585 33.90 Plymouth, MA-f  
1719 KCB479 " Kingston, " "  
1812 KCE681 33.70 Rockland, ME-f  
1828 35.26 Portland, OR-mp  
1855 38.5 Spanish  
2-4: 1401 KCD582 33.70 Harvard, MA-f  
KCC705 " Holden, " "  
KDN599 " Paxton, " "  
1402 KCD492 " DennisPort, ""  
KCD497 " BuzzardsBay, ""  
KCD500 " Wellfleet, " "  
KCD556 " Orleans, " "  
KCF574 " Mashpee, " "  
KCD594 " Chatham, " "  
KCD760 " Osterville, ""  
KCD845 " Brewster, " "  
1403 KCD454 " Hyannis, "-fdi  
1409 KCH677 " Fitchburg, "-cf  
KCD574 " Eastham, "-f  
1411 KCE537 " Sterling, " "  
KCH239 " W.Boylston, ""  
1412 KAV492 " Winchendon, ""  
KCD353 " Lancaster, ""  
KCB360 " Leominster, ""  
1429 KDA381  
KDC288 33.90 Hollis, NH-f  
1440 41.5 BBC (TV audio)  
1507 41.23 France (TV audio)  
1515 41.62 Spanish; 1525 41.25 Fr  
1656 KCA305 37.54 Eddington, ME-u  
1710 KCC405 " Bangor, " -he  
1835 35.26 Seattle, WA-mp  
1840 35.26 Eugene, OR-mp  
1842 35.26 Roseburg, OR-mp  
1843 KOP303 35.46 Langley, WA-mp  
2-5: 1537 KCA585  
1540 KCF337 33.70 Boylston, MA-f  
1544 KCA305, KCC405  
1550 KCD820 33.90 W.Bridgewater, MA-f  
1551 KCC825 33.70 Kennebunk, ME-f  
1614 KCE537; 1625 low-36 Spanish  
1630 KDC288; 1729 KDA383, KDA381  
1955 40.62 Pacific?  
2-6: 1400 KCD454  
KCD246 33.70 S.Yarmouth, MA-f  
1401 KCL271 " Harwich, " "  
2-6: 1401 KCF358 33.70 Centerville, MA-f  
KCD492, KCD500, KCD556  
KCD594, KCD760, KCD845  
1402 KCA585; 1500 41.5 BBC  
1510 KCA305  
1523 KCA346 37.54 Ellsworth, ME-he  
1557 KCI299 35.22 New Haven, CT-tp  
1558 42.8 Spanish; 1621 KCC405  
1657 KCB781 33.70 Barnstable, MA-cf  
1659 KCB526, 1700 KBZ283  
1712 KCF313 33.66 Andover, MA-f  
1715 KDB386 " Pepperell, ""  
1717 KCB681; 1835 35.26 Seattle  
1835 KOK418 35.46 (west)-mp  
1836 KOP303 35.46  
1837 35.26 Bend, OR-mp  
1838 KOB238 37.58 Seattle, WA-light  
1839 35.26 Portland  
KCA661 33.90 Carver, MA-f  
1858 KFN501 37.18 Salem, OR-cg  
1906 KCF729 37.10 Lancaster, MA-p  
1929 KEA860 35.22 NY, NY-tp  
2245 KCE537, 2242 KCL540  
2255 KCH585  
2257 KCA633 33.90 Middleboro, MA-f  
2301 KCD511 33.70 Camden, ME-f  
2302 KCW348 33.90 Ft.Fairfield, ME-f  
2-7: 1413 KCD575 33.70 Cheshire, CT-f  
1427 KCC405, 1428 KCA305  
1436 KCI299  
1441 KCD626 37.54 New Haven, CT-wtr  
1443 KCF582 33.70 Thomaston, ME-f  
1452 41.5 BBC; 1454 41.25/.23 France  
1458 KCA346  
1559 KCA703 39.82 Fairhaven, MA-p  
1620 mid-41 Canada (Fr)  
1630 42.98 Can.??; 44.08 Spanish  
1712 KCA570 39.82 Newburyport, MA-p  
1753 KCD834 39.10 Windsor, VT-lg  
2259 KCD306, 2300 KCD511  
2321 KOH894 33.70 Winslow, WA-cf  
2330 KCON689 33.54 Norfolk, MA-f  
2331 KDL860 33.70 Rockport, ME-f  
KCA288 33.90 PresqueIsle, ""  
2338 KCF313; 2340 KCD556 33.66  
2-8: 0135 KLF527 35.22 Honolulu, HI-tp  
0950 KOE257 " Phoenix, AZ-tp\*  
1032 35.46 L.A., CA-mp\*  
1430 46.12 Spanish; 1523 KCA305  
1527 41.27 France, 1611 41.23 Fr  
1630 41.25 Fr; 1717 35.26 Seattle  
1733 KOP303 35.46  
1746 35.26 Portland; 1747 KOB238  
1802 KCC405; 2117 KOK418  
2300 KCR901 33.98 Rochester, NH-f  
2304 KCF311 33.66 Carlisle, MA-f  
KCF310 " Chelmsford, ""  
2315 KCH794 33.54 Wrantham, " "



## VHF UTILITY DX

(Dyer, cont.)

2-8: KDX459 33.54 Medway, MA-f  
 2319 KCD500  
 2-9: KLF527 bs  
 1346 35.28 se; 1400 KCD454  
 1400 KCD244 33.70 Falmouth, MA-f  
 KCD246  
 KCF264 " Truro, " "  
 KCD271  
 KCE288 " W. Tisbury, "-cf  
 1401 KCF358, KCD492, KCD497  
 KCD498 33.70 Sandwich, MA-f  
 KCD500, KCD556, KCD760  
 KCB781, KCD845, KCD574  
 1404 KCA585  
 1429 KDC288, KDA381  
 1430 KDA383, KBZ283  
 1438 41.27 Fr, 1510 41.25/.23 Fr  
 1525 37.54 US ne; 1538 41.5 BBC  
 1745 35.26 Seattle; 1830 40.62 Pac.?  
 1840 KUA288 35.22 Portland, OR-tp  
 1955 KOK418; 2000 35.26 Portland  
 2256 KCB999 33.78 Burlington, VT-f  
 2259 KCA695 " Manchester, NH-"  
 2300 KCD511, 2303 KCR901  
 2305 KCA633  
 2-10: KCH677  
 1358 KCB404 33.70 Ashburnham, MA-f  
 KCG342 " Barre, " "  
 KCB778 " Berlin, " "  
 KBA887 " Bolton, " "  
 KCF337  
 KCA395 " Gardner, " "  
 KCD582, KCC705  
 KCB364 33.70 Hubbardstown, MA-f  
 1359 KCD353, KCB360, KDN599  
 KCN575 33.70 E. Princeton, MA-f  
 KCH585, KCD454, KCD246  
 1400 KCF264, KCD271, KCE288, KCF358  
 KCD492, KCD497, KCD498, KCD500  
 1402 KCD556, KCF574, KCD594, KCD760  
 KCB781, KCD845, KCD574  
 1403 KCD244, 1408 KCB526  
 1417 KCE553 33.70 Townsend, MA-f  
 1425 KCC825; 1429 41.23 France  
 1429 KCI299; 1437 41.25/.27 "  
 1455 45.13 Spanish; 1500 41.5 BBC  
 1502 KGC755 33.90 Lancaster, PA- cf  
 1540 KCD626, 1808 KEA860  
 1809 KUA288  
 1850 35.46 Oakland, CA-mp  
 1855 40.62 Pacific?  
 2235 KCF310, 2241 KCL540  
 2300 KCE579 33.78 Keene, NH-f  
 2302 KCF314 33.66 Tyngsborough, MA-f  
 2305 KCB404 33.82  
 2308 KCE358 33.54 Shelburne, MA-cf  
 2-11: KCD244, KCD246, KCF264, KCD271  
 KCE288, KCF358, KCD492, KCD497  
 KCD498  
 1404 KCD500, KCD556, KCF574, KCD594

## APRIL 1980

2-11: KCD760, KCB781, KCD845  
 1405 KCD574, KCD454  
 1413 KCB360, KCH677  
 1417 KCB844 33.70 Greenfield, MA-f  
 1455 KCA305, 1456 KCC405  
 1620 41.5 BBC, 1628 39.64 Spanish  
 1635 41.25 France  
 1651 KCA346, 1659 KDA381  
 1659 KBH354 33.70 Rockville Center, NY-f  
 1701 KCA585  
 1704 KCD346 33.90 Tolland, CT-f  
 1759 KDC288, 1800 KCA695  
 1812 KOP303 35.46; 1822 35.26 Port.  
 1947 KOK418; 1959 35.26 Seattle  
 2000 KBZ283, 2043 KCD511  
 2100 40.62 Pacific?  
 2235 35.46 L.A., CA-mp\*  
 2-12: 0128 35.38 Imperial, CA-mp\*  
 0129 35.38 L.A., CA-mp\*  
 0655 KII508 35.22 Orlando, FL-tp\*  
 1430 KCA305; 1445 41.25 France  
 1450 41.5 BBC, 1454 KCC405  
 1512 KCA346; 1525 46.12 se  
 1640 35.58 Scranton, PA-vp  
 1650 KUA288; 1652 40.08 Can. (Fr)  
 1706 KOB238, 1721 KOK418  
 1745 35.26 Portland  
 1757 35.26 Seattle; 2031 KBZ283  
 2-13: 0403 35.46 L.A., 0431 KOE257\*  
 1400 KBA887, KCA395  
 1401 KCC705, KCB364  
 KAX916 33.70 Lunenburg, MA-f  
 KDN599, KCN575, KCH585  
 1402 KCE581 33.70 Athol, MA-f  
 1406 KCH677; 1427 37.02 Russian  
 1427 41.27 France; 1435 41.5 BBC  
 1435 41.23 " ; 1456 KCC405  
 1600 45.1 Spanish; 1645 KCA346  
 1729 35.26 Eugene  
 1731 KOP303 35.46; 1823 KCA305  
 1846 KOB238; 1910 35.26 Portland  
 1915 35.46 L.A., 1916 35.38 L.A.\*  
 1921 KUA288, 1926 KOK418  
 2110 40.62 Pacific?  
 2142 35.26 Seattle; 2300 KCD511  
 2334 KFN511 33.70 Owls Head, ME-vf  
 KDX469 33.90 Mars Hill, "-f  
 2340 KCD556 33.66  
 2345 KCE563 33.54 Orange, MA-f  
 2348 KDB386  
 2-14: 0106 35.42 Cincinnati, OH-mp\*  
 1410 43.7 se; 1550 35's US ne  
 1626 KCH239  
 1751 KCG651 33.70 Derby, CT-f  
 1804 KCE681  
 1935 KCD473 33.70 Wolcott, CT-f  
 1945 KOP303 35.46; 1949 KBZ283  
 1953 KOK418; 1955 35.26 Seattle  
 1959 KDA383, KDA381, KDC288  
 2001 35.26 Portland

## VHF UTILITY DX

(Dyer, cont.)

1413 KUA288, 2124 KLF527  
 2-15: KCD497, KCD498, KCD500  
 1402 KCF574, KCD594, KCD760  
 KCB781, KCD845  
 1538 KCA346, 1541 KCC405  
 1550 41.23 France  
 1828 45.26 Portland  
 1913 KDK418, 1916 KOB238  
 2025 45.26 New Zealand TV video  
 2030 KDP303 35.46; 2125 KLF527  
 2310 KDX459, 2314 KCD346  
 2315 EG711 33.54 Hamden, CT-f  
 ED598 " Athol, MA- "  
 2317 EB479 33.90 Kingston, ""  
 2318 EG249 33.70 Southbury, CT-vf  
 2324 CB979 33.90 Norwich, "-f  
 2329 CE570 33.54 Turners, MA-fdi  
 EB669 33.70 New Milford, CT-f  
 EG342  
 EI233 33.66 Watertown, CT-f  
 BZ283; KCD556 33.66  
 EB563  
 ED336 33.70 Lincolnville, ME-vf  
 DB386, 2347 KCH239  
 CF264 33.66  
 2-16: (major magnetic storm)  
 5.26 Centralia, WA-mp  
 5.26 Seattle  
 15.26 Bellingham, WA-mp  
 0-32 US ne  
 15.26 Portland  
 15.25 New Zealand video  
 2-17: KCD582; 1401 KCC705, KCD353  
 KCB360, KAX916, KDN599, KCN575  
 KCH585, KCE537  
 KCH239, KAV492  
 KCD454, KCD246, KCH264, KCD271  
 KCD492, KCD497, KCD498, KCD500  
 KCD556, KCF574, KCD594, KCD760  
 KCB781, KCD845  
 KCD574  
 KUA300 35.22 Goleta, CA-tp  
 KCA346, 1909 KCA305  
 2100 45.25 New Zealand video  
 2-18: KCB781, 1528 43.7 se  
 KCC957 33.70 Bethel, CT-f  
 1655 KCB526; 1700 KCA695, KDA381  
 1705 KCG651, 1712 KCH954  
 1713 KCG249, KCA585; 1714 KDA383  
 1715 KDB386; 1717 35.26 Seattle  
 1725 45.26 Portland; 1942 KOK418  
 1946 KOP303 35.46  
 1954 KCF944 33.54 Brattleboro, VT-f  
 2135-2130 45.25 videos  
 2248 KCG933 33.90 Norwell, MA-f  
 2249 KCA974 " Plympton, " "  
 2250 KCD306, 2252 KCF582  
 2254 KCB951 33.70 Wells Beach, ME-f  
 2255 KQY588 33.84 Cohoes, NY-fdi

## APRIL 1980

2-18: KCE869 33.70 Prospect, CT-vf  
 2257 KCY582 33.54 Franklin, MA-f  
 2258 KCD658 33.70 Westminster, ""  
 2258 KCD353, KCF311; 2300 KBZ283  
 2301 KCC825, 2303 KCE579  
 2305 KCB404 33.82; 2314 KDC288  
 2314 KCD471 33.70 Wells, ME-f  
 2332 HLQA ? 33.45 Korea?-cw  
 2345 35.26 Bellingham  
 2359 XSG/3/7/8 34.20 China-hac  
 2-19: 0225 KFL943 35.58 Las Vegas, NV-tp\*  
 0236 35.46 L.A.\*  
 1402 KCF264; 1405 KCD500, KCD556  
 1405 KCD760, KCB781, KCD845, KCD574  
 1405 KCD454; 1429 KDA383  
 1445 43.7 se; 1500 44.62 ?  
 1510 KCC405, KCA305; 1511 KCD471  
 1610 KCA346; 1705 KOP303 35.46  
 1715 41.5 BBC; 1730 KUA288  
 1732 KOB238, 1750 KFN501  
 1758 39.82 US?  
 1801 KCA986 37.10 Clinton, MA-p  
 1831 35.26 Portland; 1834 KOK418  
 1836 KCF313, 1852 KCB979  
 1857 KCI299, 1858 KEA860  
 1900 KBZ283, KCC284  
 1905 KJP390 33.70 West Point, PA-f  
 1909 KCC825; 2050 45.25 N.Z. video  
 2213 45.25 Spanish; 2245 KCF582  
 2247 KCB280 33.98 Waterbury, CT-f  
 2256 KCH585, 2257 KCY582  
 2258 KCD658, 2259 KCB778  
 2300 KCN857 33.78 Winchendon, MA-f  
 KCC957  
 KLI380 33.90 Center Sandwich, NH-f  
 2303 KCD336; 2305 KCB404 33.82  
 2306 KCB844, KCF337, KCE570  
 2308 KCE526 33.70 Bethlehem, CT-vf  
 2308 KCB364, 2313 KDA381  
 2313 KCB366 33.54 Sunderland, MA-f  
 2314 KCH794; 2315 KCG711, KCD473  
 2319 KDC288, 2322 XSG/4/7  
 2324 KCN575, 2327 KCH239  
 2329 KDA383, KCA695; 2330 KCG342  
 2330 KBI789 33.90 Mapleton, ME-f  
 2332 KCA288; 2348 35.96 Russian  
 2-20: 0010 35.44 China (Taiwan?)-ha  
 0038 XSG/3/7/8  
 1429 KDA385, 1641 KCD454  
 1715 KCE869  
 1722 KCE721 33.70 Litchfield, CT-f  
 1727 KCB979, 1729 KCC825  
 1738 35.26 Portland; 1741 KCA305  
 1746 KCC405; KOP303 35.46  
 1748 KLD863 33.70 Rockland, ME-f  
 1751 35.26 Eugene  
 2040 45.25 N.Z. video  
 2254 35.26 Seattle; 2259 KCA288  
 2300 KCD511, 2301 KCE681  
 2315 XSG/4/7; 2335 38.44 Alberta?  
 2355 35.96 Russian?

## VHF UTILITY DX

(Dyer, cont.)

2-20: (addendum)

2115 46.25 Australian TV video

2-21:

1602 KCD658, 1603 KDA381

1604 KCD598, 1605 KCB366

1614 KCB575, 1618 KCB526

1622 41.5 Spanish

1640 KDC223 33.82 E. Brunswick, NJ-f

1643 KDA383, 1659 KBZ283

1700 KCA695, 1704 KCB479

1717 35.26 Seattle

1723 KOP303 35.46; KCA585 33.90

1730 35.26 Portland; 1735 KCC705

1747 KCA305, 1750 KOB238

1752 KOK418

1835 35.26 Glide, OR-mp

2300 45.25 N.Z. video; 2310 XSG/4/7

2325 35.96 Russian?

2-22:

1506 KCD511, 1511 KCD471

1524 KCB681, 1540 KCF264 33.66

1554 KLD863

1556 KCF315 33.66 Westford, MA-f

1559 KCB579 33.54; KBZ283, KDA381

1605 KDB245 33.54 Millis, MA-f

1608 KCA974; 1615 35.26 Seattle

1620 KCB979, 1629 KDC288

1643 KAV492, 1644 KDA383

1705 KCE721; 1710 KOP303 35.46

1715 KDB386, 1720 KCC705

1900 41.5 Sp.; 1925 37.54 US ne

1937 KOB238; 2115 40.62 Pacific?

2309 KCB588, 2314 KCH794

2315 KCD473

2316 KDU446 33.70 Gaylordsville, CT-f

2318 KCG249, 2319 KCD500

2320 KCD598, 2321 KDX459

2330 KCE570, KCI233; 2331 KCB669

2338 KCH239 MA-fdi

2340 KCE562 33.54 Montague Center, /

2341 KDG722 33.66 Littleton, MA-f

2-23:

1920 KOP303 35.46; 1925 35.26 Seat.

2055 37's US ne; 38.5 Spanish

2059 KCA695

KGC522 33.78 Georgetown, DE-sf

2259 KCB778, KCD760, KCB577

2300 KDA383, KCD473

KBF372 33.54 Hadley, MA-f

2301 KCR901, KOB238

KCK402 33.78 Beach Haven, NJ-f

KCG249; Scranton

2312 KCI299, KEA860; 2328 KCG651

2329 KCE570; 2330 KCB366, KCB689

2340 KCF337

2343 KEM642 33.78 Jackson, NJ-vf

2345 KDB386, 2346 KCE721

2346 KEG776 33.82 Edison, NJ-f

2350 KUA288; 35.26 Eugene

2354 KVI522 33.82 Piscataway, NJ-f

2356 KCF596 33.86 Brookfield, CT-cf

2359 KED944 33.86 E. Paterson, NJ-f

2-24:

0002 KCF562 33.70 Roxbury, CT-f

## APRIL 1980

2-24:

0002 KCF314, 0003 KDC288

0005 KCF313

1355 KBA887, KCD582, KCC705, KCD353

KCB360, KDN599, KCH585

1356 KCH239, 1359 KCG711

1400 KCD454, KCD244, KCD246, KCF264

KCD271, KCE288, KCF358

1401 KCD492, KCD497, KCD498, KCD500

KCD556, KCF574, KCD594

KCD697 33.70 Provincetown, MA-f

KCD760, KCB781

1402 KCD845, KCD574

1405 KCA585; 1450 41.25 France

1505 KCG651, 1554 KCF779

1559 KCF398 33.70 Cornwall, CT-f

1720 41.5 BBC, 1805 41.5 se

1809 KCA346, 1812 KOB238

1828 KEX905 37.58 Roseburg, OR-p&amp;l

1935 KOP303 35.46; 2005 35.26 Port.

2035 45.25 N.Z. video; 2117 KOB894

2-25:

1402 KCF264, KCD492, KCD500, KCD556

1403 KCD760, KCB781, KCD574, KCD454

1403 KCD845; 1414 KCD244

1419 KCB404, KCG342, KCB778, KBA887

KCF337

KCH246 33.70 Clinton, MA-f

1419 KCD582; 1420 KCC705, KCB364

1420 KCD353, KCB360, KDN599, KCB575

KCH585, KCE537, KCH239

1421 KAX916, 1441 KCD574

1515 KCA305; 1525 37.16 Russian

1538 KCC405, 1554 KEA860

1715 KCA346; 1735 KOP303 35.46

1758 35.26 Seat.; 1803 KUA288, KOK418

1814 35.26 Bend; 2100 45.25 N.Z. vid.

2245 KLF527, 2317 35.66 NY

2340 KOB238, 2356 KFN501

2356 43.08 Alberta? (mobiles)

2-26:

0013 45.25 Spanish ?\*

0059 XSG/3/7/8

1421 KCB281 33.90 Bridgewater, MA-f

1432 KDA381; 1452 KCC405, KCA305

1456 KCA346; 1547 Scranton

1555 43.7 se; 1704 KCD626

1720 40.12 Can(Fr); 1735 44.71?

1856 KOB238

2-27:

0000 KCF562, 0002 KDC288

0002 KRZ280 33.90 Glens Falls, NY-cf

0003 KCK671 " Lake George, " "

0030 35.26 Port., 35.26 Seattle

0036 KOK418; 0059 KOP303 35.46

0105 45.24 N.Z. video

0110 XSG/3/7/8

1533 KCI299, KEA860; 1540 47's Sp.

1724 KCC405, 1725 KCA305

1809 KOB238; 1813 KOP303 35.46

1814 35.26 Port.; 35.26 Seattle

1858 KCA346; 2300 45.25 N.Z. vid.

2-28:

0103 KUA288

1401 KCA346

## UTILITY DX

(Dyer, cont.)

28:

03 KCD244, KCD246, KCF264, KCD271

KCE288, KCF358, KCD492, KCD497

1404 KCD498, KCD500, KCC825, KCF574

KCF594, KCD760, KCB781, KCD845

KCD574, KCD454, KCD556

1407 KEA860, 1409 KCA305

1413 KCB404, KCB778, KBA887, KCF337

KCC705, KCB364, KCD353, KCB360

1414 KDN599, KCH585, KCE537

KRJ877 33.70 Templeton, MA-f

KCH239, KCD658, KAV492

1415 KCH677

1420 41.25 France, 41.5 BBC

1450 39's US ne; 1455 45 beat

1510 low-40 Can(Fr); 1550 47's Sp.

1640 Scranton; 1750 35.26 Portland

1802 35.26 Seattle; 1803 KOP303 4.6

1817 KOK418; 2108 45.25 N.Z. video

2130 KUA288

2144 KCC482 35.22 Concord, NH-vp

2151 KLF527; 2353 KOP303 35.62

2-29:

35 KBZ283, 1346 KCB979

37 KCI299, 1417 KCA346

37 KCC405, 1438 KCC482

4 KCA305; 1450 41.25/.27 France

46 KCD626; 1600 42.98 Canada?

40 KLO485 39.98 Alfred, ME-cg

40 41.42 Canada; 1955 46.46 Sp.

40 45.24 N.Z. video

43 KOP303 35.46; 0047 38.78 Rus.

43 KCA346; 1515 41.23/.25/.27 Fr

49 KCA305; 1530 43.7 se

40 Scranton; 36.54 Russian

40 41.5 BBC, 1905 KOB238

40 40.62 Pacific?

2-30:

40 40.04 Russian

455 KCB778, KBA887, KCF337, KCA395

KCD582, KCC705, KCB364, KCD353

KCB360, KDN599, KCB575, KCH585

356 KCE537, KRJ887, KCH239, KCD658

356 KAV492; 1357 KCH677, KAX916

1401 KCD246, KCF264, KCD271, KCE288

KCF319 33.70 W. Barnstable, MA-/

KCF358 fdi

1402 KCD492, KCD497, KCD500, KCD556

KCF574, KCD594

1403 KCD760, KCB781, KCD845, KCD574

KCD454

1412 41.5 BBC; 1420 41.25/223 Fr

1505 38.74 Russian

KEC515 35.58 Albany, NY-tp

1610 46.8 se

1708 KEA323 37.18 New City, NY-p

1816 KEA860; 40.62 Pacific?

328 KLF527

2-31:

40 38.47 Russian

40 41.5 BBC; 1403 KCD760, KCB781

40 KCD845, KCD454

45 41.25/.23 France; 1424 KCC405

## APRIL 1980

3-3:

1428 KCA305, 1457 KCA346

1543 36.94 Russian; 1645 low-40 Can

1710 45.13 se; 1747 Scranton

1830 KOK418; 1833 KOP303 35.46

1834 35.26 Port.; 2055 KOB238

2132 45.24 N.Z. video

3-4:

0005 35.26 Seattle

1330 41.5 BBC, 41.25 France

1340 37.35 se; 1354 KCC405

1410 38.74 Rus.; 1413 40.16 Can(Fr)

1420 39's US ne

1425 45 BBC videos (last on 16 Jan)

2055 40.62 Pacific?; 2122 KOB238

3-5:

0008 35.26 Port.; 0026 40.04 Rus.

0040 40.15 Rus?

1313 KCB526; 1318 KCF574

1330 KCD582, 1356 KCI299

1400 41.23 Fr, 1415 41.27 Fr

1416 KCA305; 1438 43.7 se

1505 41.25 Fr; 1528 KCC405

1543 41.52 Canada; 1642 KCA346

1647 35.26 Seattle; 1652 KOK418

1700 35.66 NY, 1852 KOB238

2210 45.24 N.Z. video

3-6:

0010 40.04 Russian; 0034 KLF527

49-50 MHz, Swan 250 with Ameco nuv-

istor preamp, 5-e Cushman horiz.

Yagi @23' with rotor

2-15:

1647-1745 HCLJX Pifo, Ecuador

(beacon 50.036 &amp; operator)

bs to: TX, NM, MO, LA, AR

1950 KH6IAA Hilo, HI

2-16:

1537-1630 49.65/49.7 se

1710 bs sw to CA to 1855

1745 KH6IAA to 1845

1805 bs to TX, OK

2-17:

1529 HCLJX (beacon)

1530 HCLBI Quito, Ecuador

1550 bs to W5

1555 50.075 Colombia; 1600 50.374?

2-19:

2100-05 50.750 N.Z. TV audio

2-20:

1815-1915 bs CA, MO, FL, AR, OK, AZ

1919-1955 HCLJX (beacon &amp; operator)

2-29:

2035-2155 50.74/.75/.76 N.Z. aud.

2104 ZLLAUM 50.11 Auckland, NZ

late nx: 6 Mar Minn heard ZLL 50-51

9 Mar 0005z H44PT (Solomons) got

FY7THF beacon &amp; later Tahiti bcn

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73, Pat WA5IYX

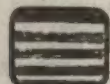


## TECHNICAL TOPICS



Q: "When you have co-channel interference on TV, what exactly is it that causes the horizontal lines in the video?"

A: Conventional television broadcasting uses amplitude modulation (AM) for the video signals. With AM, two or more signals close in frequency being received mix together and produce what's called a heterodyne beat. You can hear this beat in the form of a whistle on a simple AM table radio, but with video co-channel interference (CCI), you're actually seeing this beat in the form of bars on the screen. As long as the stations interfering with each other are using the same horizontal and vertical sync standards, the lines or "beat bars" (or "venetian blinds") will appear horizontally on your screen. When receiving foreign video signals from a country that uses different electronic standards, the CCI will appear to be slanted diagonally across the screen. In North America, the most common types of CCI resembles one of these illustrations:



0 offset



10 kHz



20 kHz

TV DXers make great use of this visible interference to help identify DX stations, when the video carrier offset frequency of a known station is used as a reference. WFTDA's publication Beyond Shortwave can show you how to do this.

Q: "During an E-skip opening, I once had the color from a DX station's signal coming in 'superimposed' over the video from the local station on the same channel. As I recall, the local station was showing a movie in black-and-white. How does this happen?"

A: This phenomenon is caused by the fact that your color set was receiving the color video subcarrier of the DX station, while the local station was transmitting only a monochrome (ie: black-and-white) signal, with no color subcarrier. The color information of the DX signal made it into your TV's bandpass amplifiers (sometimes called "color IFs"), and locked onto the top of the local station's black-and-white signal, much in the same way that it would happen if your local had been transmitting a color picture. This has the weird effect of showing up as little "blobs" of color in recognizable floating shapes moving across the black-and-white picture. All it takes is the right conditions, plus the proper amount of signal strength ratio between the two stations. With almost all programming in color these days, it has become something of a rarity to see it happen, because it requires that the local station be running a black-and-white signal.

Q: "Can 10 kHz CCI sometimes look like 20 kHz CCI?"

A: Yes, and some TV DXers may have trouble telling them apart in a heavy and "deep" type of DX opening, where there quite often will be more than one set of CCI on a video signal. If you're using CCI to help identify a station, be careful not to mistake offsets by "misreading" the CCI. With E-skip openings, you may notice that many Latin American stations run slightly off frequency--reports of 5 or even 15 kHz CCI are not uncommon among TV DXers observing Es signals from Mexico.

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## SLIDX

The St. Louis Internationale DX'ers (SLIDX) has been formed. Meetings are held on the 3rd Sunday of each month.

The St. Louis Internationale DX'ers is a regional & international shortwave/DX club, designed primarily to serve DX'ers and shortwave listeners in the Greater St. Louis area as well as the states of Missouri and Illinois. Regular membership is open to any person who is domiciled in the aforementioned areas. However we are International in scope! We welcome Associate Members from anywhere else in the world!!

SLIDX will publish a monthly bulletin "THE GRIDLEY WAVE" which is included in the membership dues. We will devote the majority of each issue to articles of both a technical and informative nature. Also, we will feature some loggings and columns pertaining to Shortwave Radio. As a bonus we will serve the mediumwave listeners with a BCB column to be edited by the well known MW DX'er Richard T. Eddie. THERE WILL ALSO BE A FEW SURPRISES!

All members will be notified well in advance of each meeting through the bulletin as to the meeting locations. Further, we will feature picnic outings twice per year. These will be held in the Spring and Fall.

Membership dues in SLIDX are \$5.00 per year for persons in North America, and \$8.00 (U.S.) per year for those outside North America.

For further information please contact SLIDX HQ at:

TERRY A KLAISEK / 9720 VICKIE PLACE / ST. LOUIS, MISSOURI 63136 / U.S.A.

## STATION BREAK

WFTDA member ads only. 3 line or 30 word limit.

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